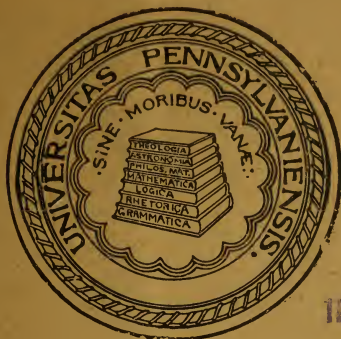


97-98

CATALOGUE
OF THE
UNIVERSITY OF PENNSYLVANIA



Founded 1740

THE LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

FASCICULUS
OF THE
DEPARTMENT OF MEDICINE
1897-98

Announcements for Session , 99

133d Annual Session

PHILADELPHIA
PRINTED FOR THE U
February,

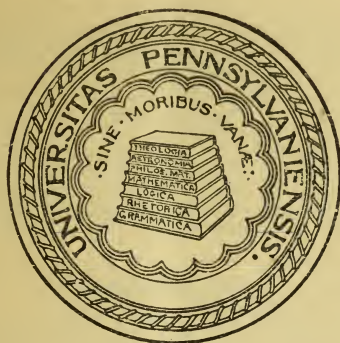
SPECIAL NOTICE.

Copies of the University Catalogue (containing detailed information as to all departments) may be obtained **ONLY** upon application to the Assistant Secretary, Room 101, College Hall. No charge is made for the University Catalogue, but all requests for transmission by mail must be accompanied by **TEN CENTS** in stamps to cover return postage.

To any alumnus of the University, the Catalogue will be sent upon application, **postage free**, on receipt of name, department and class.

The special announcement of any department of the University will be sent upon application **postage free**.

CATALOGUE
OF THE
UNIVERSITY OF PENNSYLVANIA



Founded 1740

FASCICULUS
OF THE
DEPARTMENT OF MEDICINE
1897-98

Announcements for Session 1898-99

133d Annual Session

PHILADELPHIA
PRINTED FOR THE UNIVERSITY
February, 1898

1898.

JANUARY.

Su	Mo	Tu	W	Th	Fr	Sa
.	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31

JULY.

Su	Mo	Tu	W	Th	Fr	Sa
.	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31

FEBRUARY.

.	.	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	.	.	.
.

AUGUST.

.	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	.	.	.
.

MARCH.

.	.	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	.	.
.

SEPTEMBER.

.	.	.	.	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	.
.

APRIL.

.	.	.	.	1	2	.
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
.

OCTOBER.

.	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31

MAY.

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31
.

NOVEMBER.

.	.	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	.	.	.
.

JUNE.

.	.	.	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	.	.
.

DECEMBER.

.	.	.	.	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
.

1899.

JANUARY.

Su	Mo	Tu	W	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	.	.	.	.

FEBRUARY.

.	.	.	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	.	.	.	.
.

MARCH.

.	.	.	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	.
.

APRIL.

.	.	.	.	.	1	.
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	.	.	.	.	.	.

MAY.

.	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	.	.	.
.

JUNE.

.	.	.	.	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	.
.

THE UNIVERSITY.

General Statements.

LOCATION.

The buildings of the University of Pennsylvania, twenty-six in number, are situated in Philadelphia, on property covering an area of over fifty-two acres. The University may be reached from the various railroad stations in Philadelphia by the electric cars as follows: from the terminal stations of the Philadelphia & Reading and Pennsylvania railroads; Market street cars west to Thirty-fourth street, thence on foot south to Woodland avenue, a trip of about fifteen minutes; or, from the Baltimore & Ohio railroad depot, by a walk of one square south to Walnut street, thence by car over the bridge west to Thirty-fourth street, a ride of about five minutes.

ACCOMMODATIONS FOR STUDENTS.

Accommodation for students to the number of three hundred and fifty is provided in the new dormitory system. These "houses" are described at length in the body of the Catalogue. Plans, prices, and all other information relating to the dormitories may be had upon application to the Registrar of the College.

A large temporary dining hall, or "Commons," has been erected at the corner of Spruce and Thirty-sixth streets, where about seven hundred students can obtain board.

In addition, board and lodging may be obtained in the immediate vicinity of the University from five dollars per week upwards. Upon application at the offices of the Deans of the several Departments (see *Administrative Officers*, following), lists of approved boarding houses may be seen.

APPLICATIONS FOR CATALOGUES, ETC.

Applications for copies of the annual University Catalogue (published in December) should be addressed to the Assistant Secretary, University of Pennsylvania, Philadelphia, Pa. No charge is made for the Catalogue, *but in all cases the request must be accompanied by ten cents in stamps* to cover return postage.

Special Circulars of Information, relating either to the separate Departments of the University, or to the various courses (liberal and scientific) offered in the College proper, will be mailed free to anyone upon receipt of name and address. Such applications should be addressed to the Deans of the several departments.

All letters of inquiry regarding the internal regulations and requirements in each separate Department of the University, should be addressed to the Dean of that Department (see *Administrative Officers*, following), and *not* to the Secretary of the University.

BRIEF HISTORICAL SKETCH.

The University of Pennsylvania traces its origin to the year 1740, when a charitable school was founded in the city of Philadelphia. In 1749, a pamphlet entitled "Proposals Relative to the Education of Youth in Pennsylvania," written by Dr. Franklin, led to a united effort by certain citizens to raise this school to the dignity of an Academy. In 1751 this was accomplished, and the Academy, consisting of an English, a Mathematical and a Latin school, each under a master with subordinate tutors and ushers, was formally opened. Two years later (1753) a charter was granted to the trustees of the institution by Thomas and Richard Penn, the proprietaries of the Province of Pennsylvania.

Under the skillful training of the learned Rev. William Smith, the first Provost, the highest class of the Academy attained that proficiency which in a college course would have entitled its members to a degree. This led to a new appeal to the proprietaries for a collegiate charter. In 1755 such a charter was granted, which designated the institution as the "College and Academy of Philadelphia in the Province of Pennsylvania."

In 1764 Dr. Smith visited England to secure funds for the college. He received liberal support among men of all shades of religious belief. Concerned lest the institution might become sectarian, they urged the trustees to make a declaration of non-sectarian principles which should be binding on their successors. Accordingly, they resolved that henceforth, as heretofore, no question of religious belief should ever enter into questions of administering the college or of appointing its officers.

In the revolutionary period, the college was looked upon with distrust by the radical patriots, and in 1779 the declaration above named was seized as a pretext for withdrawing the charter. A new institution, entitled the "University of the State of Pennsylvania," was chartered at the same time. After ten years of ineffectual work for both institutions, a compromise was effected and a union projected. In 1791, this amalgamation was confirmed by act of legislature, and the name "University of Pennsylvania" conferred upon the united institutions.

The University of Pennsylvania now includes the following departments, established at the dates indicated :

- (1740. Charitable School ; out of which grew, in)
- 1751. The College.
- 1765. The Department of Medicine.
- 1790-1850. The Department of Law.
- 1865. The Auxiliary Department of Medicine.
- 1874. The University Hospital.
- 1878. The Department of Dentistry.
- 1883. The Department of Philosophy.
- 1884. The Department of Veterinary Medicine.
- 1885. The Veterinary Hospital.
- 1885. The Department of Physical Education.
- 1889. The Museum of Archæology and Paleontology.
- 1891.* The University Library.
- 1892. The Laboratory of Hygiene
- 1892. The Wistar Institute of Anatomy and Biology.

* Building erected.

ADMINISTRATIVE OFFICERS.

THE UNIVERSITY.

The Corporation offices are on the third floor of 400 Chestnut street.

Provost—CHARLES C. HARRISON, LL. D.

The Provost is at his University office, 114 College Hall, West Philadelphia, on Tuesdays and Fridays, 9.15 A. M. to 11 A. M.
At other times, at 400 Chestnut street.

Vice-Provost—REV. GEORGE S. FULLERTON, PH. D.

Office, 217 College Hall. Office hours, Mondays and Tuesdays,
10 A. M. to 11 A. M.

Treasurer—THOMAS ROBINS, A. M.

General Office, 400 Chestnut Street. Office hours, 10 A. M. to 3
P. M. Saturdays, 10 A. M. to 12 M.

Secretary—REV. JESSE Y. BURK, A. M.

General Office, 400 Chestnut Street. Office hours, 10 A. M. to
1 P. M., except Saturdays.

Assistant Secretary—J. HARTLEY MERRICK, A. B.

Office, 101 College Hall. Office hours, 9.30 A. M. to 4.30 P. M.
Saturdays, 9.30 A. M. to 12.30 P. M.

THE COLLEGE AND PROFESSIONAL FACULTIES.

Dean of the College Faculty—JOSIAH H. PENNIMAN, PH. D.

Office, 103 College Hall. Office hours, 9 A. M. to 12 M., daily.

Registrar of the College and Department of Philosophy—EDWARD W.
MUMFORD, PH. B.

Office, 103 College Hall. Office hours, 9 A. M. to 12 M., daily.

Dean of the Faculty of Philosophy—WM. ROMAIN NEWBOLD, PH. D.

Office, 105 College Hall. Office hours, 10 A. M. to 12 M., daily.

Dean of the Law Faculty—WILLIAM DRAPER LEWIS, PH. D.

Office in the Law Department, 115 So. Sixth Street. Office
hours, 11 A. M. to 1 P. M. Saturdays, 9 A. M. to 10 A. M.

Dean of the Medical Faculty—JOHN MARSHALL, M. D., NAT. SC. D.

Office, Medical Hall. Office hours, 1 P. M., daily.

Dean of the Dental Faculty—EDWARD C. KIRK, D. D. S.

Office, Dental Hall. Office hours, 9 A. M. to 1 P. M., daily.

Dean of the Faculty of Veterinary Medicine—LEONARD PEARSON,
B. S., V. M. D.

Office, Veterinary Hall, Thirty-sixth and Pine Streets. Office
hours, 8.30 A. M. to 12 M., daily.

Dean of the Faculty Auxiliary to Medicine—CHARLES K. MILLS,
M. D.

Office, Room A, Medical Hall. Office hours, Mondays, 3 P. M.
to 3.30 P. M.

GENERAL SUMMARIES FOR 1897-98.

OFFICERS OF INSTRUCTION.

The College	110
Department of Philosophy	53
" " Law	18
" " Medicine	89
Auxiliary Department of Medicine	4
Laboratory of Hygiene	3
Department of Dentistry	39
" " Veterinary Medicine	17
Emeritus Professors	6
	<hr/>
Duplications	316
	<hr/>
Total	81
	<hr/>
Total	258

STUDENTS.

The College {	School of Arts	357	} 938
	Towne Scientific School	297	
	Courses for Teachers	284	
Department of Philosophy		155	
" " Law		360	
" " Medicine		882	
Auxiliary Department of Medicine		48	
Laboratory of Hygiene		23	
Department of Dentistry		432	
" " Veterinary Medicine		48	
		<hr/>	2886
Duplications			52
		<hr/>	
Total			2834

GEOGRAPHICAL SUMMARY OF STUDENTS.

Alabama	1	Connecticut	26	Germany	7
Argentine Rep.	3	Cuba	5	Hawaii	1
Australia	6	Delaware	64	Illinois	16
Austria	3	Dist. of Columbia	10	India	1
Brazil	2	Ecuador	2	Indiana	12
California	15	England	4	Iowa	14
Canada	17	Florida	1	Ireland	1
China	1	France	4	Japan	5
Colorado	2	Georgia	12	Kansas	6

Kentucky	4	New Mexico	3	South Africa	1
Louisiana	3	New York	116	South Carolina	4
Maine	11	New Zealand	1	Sweden	1
Maryland	20	Nicaragua	8	Switzerland	2
Massachusetts	55	North Carolina	11	Tennessee	8
Mexico	2	Nova Scotia	3	Texas	10
Michigan	3	Ohio	44	U. S. of Colombia,	2
Minnesota	6	Oklahoma Ter.	1	Utah	4
Mississippi	2	Oregon	2	Vermont	7
Missouri	9	Pennsylvania	1984	Virginia	8
Montana	1	Prince Edward		Washington	6
Nebraska	5	Island	1	West Indies	4
Nevada	1	Puerto Rico	1	West Virginia	17
New Brunswick	3	Rhode Island	17	Wisconsin	14
New Hampshire	9	Russia	4	Wyoming	1
New Jersey	171	Scotland	3	Total	2834

HOWARD HOUSTON HALL.

BOARD OF DIRECTORS.

CHARLES C. HARRISON, LL. D., PROVOST.

REV. GEORGE S. FULLERTON, PH. D., VICE-PROVOST.

and the

DEANS OF THE SEVERAL FACULTIES.

HOUSTON HALL, a club-house for the use of the students of the University of Pennsylvania, was formally dedicated to its uses on the evening of Thursday, January 2, 1896. This building, within whose walls centres the daily social life of the students, was erected largely through the generosity of the late H. H. Houston, a Trustee of this University, and his wife, as a memorial to their eldest son, Henry Howard Houston, Jr., a member of the Class of 1878. The corner-stone was laid on December 22, 1894.

The situation of HOUSTON HALL, in almost the exact geographical centre of the University's great group of buildings, embodies to a large extent the idea of its existence as a centralization of the University's undergraduate interests. Its purposes, briefly stated, are to provide for the students of the various departments a place where all may meet on common ground; and to furnish them with every available facility for passing their leisure hours in harmless recreation and amusement. The equipment of the Hall includes a reading room, with a large number of periodicals and newspapers; smoking rooms, billiard and pool tables, tables for chess and checkers, a correspondence room, bowling alleys, shuffle boards, a bath room, including shower and needle baths, and a swimming pool; athletic trophy rooms; a large auditorium with grand organ; rooms for the university papers and other organizations, a dark room for amateur photographers, and many other rooms for general purposes.

The Hall is the home of the Houston Club, to membership in which any student or officer of instruction is eligible. The cost of membership is Two Dollars per annum.

UNIVERSITY DORMITORIES.

The dormitory buildings form a large block surrounding two open courts. Copies of plans of the dormitories, indicating the general dimensions of the rooms, as well as other printed information, may be obtained upon application to the Registrar, Room 103. College Hall.

As may be seen by reference to the plans, about one-half of the rooms are *en suite*, providing for two students a common study, with two bedrooms. Most of the remaining rooms are for a single occupant. All rooms and halls are heated by steam and lighted by electricity. The buildings are on the "separate staircase" system, all doors opening into the courts. On each floor and on every staircase are lavatories, with hot and cold shower baths, etc. Almost all the double, and many of the single, rooms have open fireplaces. The University supplies for each student the following furniture: bedstead, mattress, bureau, washstand, table, bookcase, chairs and toilet china.

Dormitory rentals are payable in advance in two equal instalments, due October 1 and February 1, respectively.

Present occupants of rooms, who intend to be matriculated as students in some department of the University during the academic year 1898-99, may engage their rooms for that year by signing new room agreements. These must be left with the Registrar not later than April 1, 1898.

Rooms for 1897-98 will be assigned by lot. A list of the rooms to be assigned will be ready for distribution on April 9, 1898. Applications from students in the College and the Department of Philosophy should be filed with the Registrar not later than 4 o'clock P. M. on April 23, 1898; and applications from students of other departments not later than 4 o'clock P. M. on May 7. Assignments to students in the College and the Department of Philosophy will be announced on April 30, and to students of other departments on May 12. Leases must be signed within one week of the day when assignments are announced. As far as possible, length of previous attendance at the University will be considered in making the allotments.

A limited number of rooms will be held until after the June (1898) examinations, for students entering the Freshman class in the College. Applications for these rooms, on the regular forms, provided for that purpose upon request, and accompanied by the required bonds, must be received at the Registrar's office, College Hall, by June 1, 1898. Notice of the assignments of these rooms will be given to the successful applicants not later than July 1. Students intending to enter any department other than the College, may obtain a list of vacant rooms upon application to the Registrar after June 1, 1898. Any assignment to a student not yet matriculated is contingent upon the signing of the lease and completing matriculation by October 1, 1898.

In the assignment of a "double room" (marked for two students on the plans), preference will be given to an application signed by two students who will use the room together. Two students wishing to apply for a room together should both sign an application for the room; such an application will be given two chances in the allotment, and any room drawn will be assigned to both the applicants. The University, however, reserves the right to cancel any assignment of a room, if it is not duly claimed and occupied throughout the year by the student or students signing the application. Suspension or expulsion from the University, or serious infringement of the rules, will be considered sufficient ground for the cancellation by the University of any lease.

If one of two room-mates is expelled or suspended, or so infringes University rules as to make his removal from the dormitories necessary, the other room-mate may have the room assigned to him by immediately signing a new application; provided that there are not two other students applying together for the room. Or he may hold the room by taking another room-mate, who must be qualified by filing an application and bond.

Every student wishing to occupy a University room must file with his application a bond for \$125.00. When one student wishes to occupy a double room, he must file a bond for \$225.00. When two students wish to occupy a room together, each must file a bond. The bond must be signed by two responsible persons, of whom one must be a citizen of the United States. No student or officer of the University will be accepted as bondsman. Or, instead of filing a bond, the student may pay in advance the full year's rent of the room, and make a deposit of Ten Dollars to cover possible damage, any balance remaining to be returned when the room is finally given up. Or the student may pay half the year's rent in

advance, and give a bond covering the other half and the deposit of Ten Dollars required. Each tenant will be held for the full year's rent and charges against the room. But when the room is vacated before the end of the college year, the bondsmen shall not be held responsible for the rent of the room for the rest of the year if the room is rented to another tenant.

Only members of the University may occupy University rooms. Rentals include heat, light, and all reasonable care of rooms. Additional service must be paid for as an extra, and must, in all cases, be performed by persons authorized by the University.

The Parietal Committee, appointed by the Trustees to have charge of the discipline of the dormitories, consists of the Vice-Provost and three Proctors, resident in the dormitories. The students in each house of the dormitories elect one of their number as a Representative, and these Representatives form a Board which meets regularly and acts with the Parietal Committee in matters concerning the order and comfort of those in the houses.

DINING HALL.

A Dining Hall, situated on a plot of ground adjacent to the dormitories, furnishes good table board at \$3.50 per week. This price includes service.

MEDICAL CALENDAR FOR 1898.

Jan. 3, Monday,	...Christmas Recess ends: 10 A. M.
Feb. 22, Tuesday,	...Washington's Birthday: Recess, all Departments. University Day.
April 1, Friday,	...Last day for receipt of Prize Essays and Reports.
April 7, Thursday,	...Easter Recess begins: 6.30 P. M.
April 11, Monday,	...Easter Recess ends: 10 A. M.
June 8, Wednesday,	...Commencement: 11 A. M.
June 13, Monday,	...Registration of Candidates for Admission: 9 A. M. to 10 A. M.
June 13, Monday,	...Entrance Examinations begin: 10 A. M.

SUMMER RECESS.

Sept. 24, Saturday,	...Competitive Examination for Medical Scholarships: 10 A. M.
Sept. 26, Monday,	..Registration of Candidates for Admission: 9 A. M. to 10 A. M.
Sept. 26, Monday,	...Entrance Examinations: 10 A. M.
Sept. 26, Monday,	...Examinations for Admission to Advanced Standing and Re-examinations of Undergraduates: 10 A. M.
Oct. 1, Saturday,	...Session begins: 12 M.
Nov. 23, Wednesday,	...Thanksgiving Recess begins: 6.30 P. M.
Nov. 28, Monday,	...Thanksgiving Recess ends: 10 A. M.
Dec. 23, Friday,	...Christmas Recess begins: 6.30 P. M.

DEPARTMENT OF MEDICINE.

FACULTY.

CHARLES C. HARRISON, LL. D., PROVOST.

REV. GEORGE S. FULLERTON, PH. D., VICE-PROVOST.

ALFRED STILLÉ, M. D., LL. D., Emeritus Professor of the Theory and Practice of Medicine and of Clinical Medicine.

RICHARD A. F. PENROSE, M. D., LL. D., Emeritus Professor of Obstetrics, and of the Diseases of Women and Children.

WILLIAM PEPPER, M. D., LL. D., Professor of the Theory and Practice of Medicine and of Clinical Medicine.

JAMES TYSON, M. D., Professor of Clinical Medicine.

HORATIO C WOOD, M. D., LL. D., Professor of Materia Medica, Pharmacy and General Therapeutics.

JOHN ASHHURST, JR., M. D., LL. D., JOHN RHEA BARTON Professor of Surgery, and Professor of Clinical Surgery.

EDWARD T. REICHERT, M. D., Professor of Physiology.

WILLIAM F. NORRIS, M. D., Professor of Ophthalmology.

BARTON COOKE HIRST, M. D., Professor of Obstetrics.

J. WILLIAM WHITE, M. D., Professor of Clinical Surgery.

JOHN GUITÉRAS, M. D., Professor of General Pathology and Morbid Anatomy.

GEORGE A. PERSOL, M. D., Professor of Anatomy.

JOHN MARSHALL, M. D., NAT. SC. D., Professor of Chemistry and Toxicology, and DEAN OF THE FACULTY.

LOUIS A. DUHRING, M. D., Professor of Skin Diseases.

*CHARLES B. PENROSE, M. D., PH. D., Professor of Gynæcology.

ALEXANDER C. ABBOTT, M. D., PEPPER Professor of Hygiene.

CLINICAL PROFESSORS.

WILLIAM F. NORRIS, M. D., Clinical Professor of Diseases of the Eye.

HORATIO C WOOD, M. D., LL. D., Clinical Professor of Nervous Diseases.

* Absent on leave.

LOUIS A. DUHRING, M. D., Clinical Professor of Skin Diseases.

DE FOREST WILLARD, M. D., Clinical Professor of Orthopædic Surgery.

B. ALEXANDER RANDALL, M. D., Clinical Professor of Diseases of the Ear.

J. P. CROZER GRIFFITH, M. D., Clinical Professor of Diseases of Children.

EDWARD MARTIN, M. D., Clinical Professor of Genito-Urinary Diseases.

JOHN H. MUSSER, M. D., Assistant Professor of Clinical Medicine.

JOHN B. DEEVER, M. D., Assistant Professor of Applied Anatomy.

CHARLES K. MILLS, M. D., Professor of Mental Diseases and of Medical Jurisprudence.

LECTURERS, DEMONSTRATORS AND INSTRUCTORS.

ADOLPH W. MILLER, M. D., Lecturer on Materia Medica.

HENRY R. WHARTON, M. D., Demonstrator of Surgery.

RICHARD H. HARTE, M. D., Demonstrator of Osteology.

THOMAS R. NEILSON, M. D., Assistant Demonstrator of Surgery.

EDMUND W. HOLMES, M. D., Demonstrator of Anatomy.

JUDSON DALAND, M. D., Instructor in Clinical Medicine and Lecturer on Physical Diagnosis.

GWILYM G. DAVIS, M. D., M. R. C. S. Eng., Assistant Demonstrator of Surgery.

JOHN K. MITCHELL, M. D., Lecturer on General Symptomatology and Diagnosis.

GEORGE H. CHAMBERS, M. D., Assistant Demonstrator of Normal Histology.

JAMES K. YOUNG, M. D., Instructor in Orthopædic Surgery.

*HENRY W. CATTELL, M. D., Demonstrator of Morbid Anatomy.

ROBERT FORMAD, M. D., V. M. D., Demonstrator of Normal Histology.

* Absent on leave.

ARTHUR A. STEVENS, M. D., Lecturer on Medical Terminology, and Instructor in Physical Diagnosis.

B. FRANKLIN STAHL, M. D., Instructor in Physical Diagnosis.

FREDERICK A. PACKARD, M. D., Instructor in Clinical Medicine.

RICHARD C. NORRIS, M. D., Instructor in Obstetrics, and Lecturer on Clinical and Operative Obstetrics.

MILTON B. HARTZELL, M. D., Instructor in Dermatology.

CHARLES S. POTTS, M. D., Instructor in Electro-Therapeutics and Nervous Diseases.

WALTER I. PENNOCK, M. D., Assistant Demonstrator of Anatomy.

HERMAN B. ALLYN, M. D., Instructor in Physical Diagnosis.

WILLIAM SCHLEIF, PH. G., M. D., Instructor in Practical Pharmacy.

JAMES M. BROWN, M. D., Instructor in Otology.

M. HOWARD FUSSELL, M. D., }
SAMUEL W. MORTON, M. D., } Instructors in Clinical Medicine.

ALFRED C. WOOD, M. D., Instructor in Clinical Surgery.

ELLWOOD R. KIRBY, M. D., } Assistant Instructors in Clinical
CHARLES L. LEONARD, M. D., } Surgery.

GEORGE C. STOUT, M. D., Assistant Demonstrator of Histology.

ROBERT S. J. MITCHESON, M. D., Assistant Demonstrator of Anatomy.

DAVID B. BIRNEY, M. D., Assistant Demonstrator of Surgery.

JOSEPH P. TUNIS, M. D., Assistant Demonstrator of Surgery and of Anatomy.

ALFRED STENGEL, M. D., }
T. MELLOR TYSON, M. D., } Instructors in Clinical Medicine.

CHARLES W. DULLES, M. D., Lecturer on the History of Medicine.

DANIEL W. FETTEROLF, M. D., Demonstrator of Chemistry.

HARRY TOULMIN, M. D., Instructor in Physical Diagnosis.

DAVID RIESMAN, M. D., Demonstrator of Pathological Histology.

CHARLES P. GRAYSON, M. D., Lecturer and Instructor in Laryngology.

HENRY D. BEYEA, M. D., Instructor in Clinical Gynæcology, and Assistant Demonstrator of Obstetrics.

WILLIAM A. N. DORLAND, M. D., Assistant Demonstrator of Obstetrics.

CLARENCE W. LINCOLN, M. D., Assistant Demonstrator of Pathological Histology.

JOHN H. GIRVIN, M. D., Instructor in Clinical Gynæcology, and Assistant Demonstrator of Obstetrics.

WARD F. SPRENKEL, M. D., Assistant Demonstrator of Obstetrics.

LAWRENCE S. SMITH, M. D., Instructor in Clinical Gynæcology.

JOHN M. SWAN, M. D., Assistant Demonstrator of Anatomy.

CHARLES H. FRAZIER, M. D., Assistant Instructor in Clinical Surgery.

WILLIAM R. HOCH, M. D., Instructor in Laryngology.

JAMES P. HUTCHINSON, M. D., Assistant Demonstrator of Surgery.

J. DUTTON STEELE, M. D., Assistant Demonstrator of Morbid Anatomy.

HOWARD MELLOR, M. D., Instructor in Ophthalmology.

J. REX HOBENSACK, M. D., Assistant Demonstrator of Anatomy, and Prosector to the Assistant Professor of Applied Anatomy.

WILLIAM H. PRICE, M. D., Instructor in Children's Diseases.

ALOYSIUS O. J. KELLY, M. D., Instructor in Physical Diagnosis.

FRANK SAVARY PEARCE, M. D., Instructor in Physical Diagnosis.

ALFRED HAND, JR., M. D., Assistant Demonstrator of Pathological Histology.

JAMES H. MCKEE, M. D., Assistant Demonstrator of Physiology.

THOMPSON S. WESTCOTT, M. D., Instructor in Children's Diseases.

JOHN H. JOPSON, M. D., Assistant Demonstrator of Surgery.

DAMASO T. LAINÉ, M. D., Instructor in Clinical Gynæcology.

LEWIS H. ADLER, JR., M. D., Prosector to the Professor of Anatomy.

GEORGE P. BARTH, B. S. in Pharm., Assistant Instructor in Practical Pharmacy.

LEON ALONZO RYAN, PH. D., Assistant Demonstrator of Chemistry.

JOHN P. ARNOLD, M. D., Demonstrator of Physiology.

A. FERREE WITMER, M. D., Assistant Demonstrator of Physiology.

EDWARD R. SCHREINER, M. D., Assistant Demonstrator of Physiology.

SAMUEL M. HAMILL, M. D., Instructor in Clinical Medicine.

The following graduates of the School conduct examinations for admission to the first year class in the respective cities in which they reside: examinations for admission to *advanced standing* are conducted *only* at the University in Philadelphia.

Dr. C. H. MASTIN, cor. Joachim and Tonti Streets, Mobile, Ala.

Dr. J. L. ROTHROCK, Lowry Arcade, St. Paul, Minn.

Dr. JOHN L. ELLIOTT, Duluth, Minn.

Dr. W. S. ELKIN, 70½ Whitehall Street, Atlanta, Ga.

Dr. J. W. WHITBECK, 125 East Avenue, Rochester, N. Y.

Dr. W. T. BELL, Odd Fellows' Building, San Francisco, Cal.

Dr. EDWARD RANDALL, JR., Galveston, Tex.

Dr. F. E. MAINE, Auburn, N. Y.

Dr. B. M. WALKER, Danville, Va.

Rev. D. MCNEILL, Charlottetown, P. E. I.

Dr. BENJ. B. CATES, Knoxville, Tenn.

Dr. WILLIAM SEAMAN, 7 Bowdoin Street, Boston, Mass.

Dr. PAUL M. DAY, cor. 14th and Warren Aves., Detroit, Mich.

Dr. G. CLOWES VAN WART, Fredericton, N. B.

Dr. J. W. SHERER, New Ridge Building, Kansas City, Mo.

HOSPITAL STAFF.

WILLIAM PEPPER, M. D., LL. D., Professor of Clinical Medicine.

JAMES TYSON, M. D., Professor of Clinical Medicine.

JOHN ASHHURST, JR., M. D., Professor of Clinical Surgery.

WILLIAM F. NORRIS, M. D., Clinical Professor of Diseases of the Eye.

HORATIO C WOOD, M. D., LL. D., Clinical Professor of Nervous Diseases.

LOUIS A. DUHRING, M. D., Clinical Professor of Skin Diseases.

BARTON COOKE HIRST, M. D., Professor of Obstetrics.

J. WILLIAM WHITE, M. D., Professor of Clinical Surgery.

JOHN GUITÉRAS, M. D., Professor of General Pathology and Morbid Anatomy, and Pathologist to the Hospital.

CHARLES B. PENROSE, M. D., PH. D., Professor of Gynecology.

DE FOREST WILLARD, M. D., Clinical Professor of Orthopædic Surgery.

B. ALEXANDER RANDALL, Clinical Professor of Diseases of the Ear.

J. P. CROZER GRIFFITH, M. D., Clinical Professor of Diseases of Children.

EDWARD MARTIN, M. D., Clinical Professor of Genito-Urinary Diseases.

ROLAND G. CURTIN, M. D., Assistant Physician.

HENRY R. WHARTON, M. D.,
RICHARD H. HARTE, M. D., } Assistant Surgeons.

MILTON B. HARTZELL, M. D., Assistant Dermatologist.

JAMES M. BROWN, M. D., Assistant Aural Surgeon.

JUDSON DALAND, M. D., Assistant Physician.

EDWARD MARTIN, M. D.,
ALFRED C. WOOD, M. D., } Assistant Surgeons.

M. HOWARD FUSSELL, M. D., Assistant Physician.

CHARLES S. POTTS, M. D., Assistant Neurologist.

ALFRED STENGEL, M. D.,
T. MELLOR TYSON, M. D., } Assistant Physicians.

RICHARD C. NORRIS, M. D.,
WARD F. SPRENKEL, M. D., } Assistant Obstetricians.

HOWARD MELLOR, M. D., Assistant Ophthalmic Surgeon.

HENRY D. BEYEA, M. D., Assistant Gynecologist.

MARY E. P. DAVIS, Superintendent of the Hospital.

JUDSON DALAND, M. D., Curator.

DAVID B. BIRNEY, M. D., Surgical Anæsthetizer.

JOHN H. GIRVIN, M. D., Gynecological Anæsthetizer.

EDWARD P. SHAEFER, PH. G., Apothecary.

RESIDENT PHYSICIANS.

HENRY NORRIS, M. D.,

LOUIS A. CRIST, M. D.,

CARL S. WILLIAMS, M. D.,

ALBERT E. TRUBY, M. D.,

ELMER R. EDSON, M. D.,

HORATIO C WOOD, JR., M. D.,

MONTGOMERY H. BIGGS, M. D.,

DAVID T. HUSTON, M. D.

DISPENSARY SERVICE.

M. HOWARD FUSSELL, M. D., Chief Physician in the Medical Dispensary.

T. MELLOR TYSON, M. D.,	} Assistant Physicians in the Medical Dispensary.
SAMUEL M. HAMILL, M. D.,	
HENRY D. JUMP, M. D.,	
W. GUTHRIE WENDELL, M. D.,	
WILLIAM S. NEWCOMET, M. D.,	
CHARLES A. E. CODMAN, M. D.,	

HARRY S. CARMANY, M. D., Microscopist to the Medical Dispensary.

WILLIAM H. PRICE, M. D., Chief Physician in the Dispensary for Diseases of Children.

WILLIAM SCHLEIF, M. D., Assistant Physician in the Dispensary for Diseases of Children.

CHARLES P. GRAYSON, M. D., Chief Physician in the Dispensary for Diseases of the Throat.

WILLIAM R. HOCH, M. D.,	} Assistant Physicians in the Dispensary for Diseases of the Throat.
FRANCIS R. PACKARD, M. D.,	

CHARLES H. FRAZIER, M. D., Chief Surgeon in the Surgical Dispensary.

GEORGE D. MORTON, M. D., Assistant Surgeon in the Surgical Dispensary.

HILARY M. CHRISTIAN, M. D., Chief Surgeon in the Dispensary for Genito-Urinary Diseases.

JAMES P. HUTCHINSON, M. D.,	} Assistant Surgeons in the Dispensary for Genito-Urinary Diseases.
FRANCIS D. PATTERSON, M. D.,	
GEORGE B. WOOD, M. D.,	

LAWRENCE S. SMITH, M. D., Chief Surgeon in the Dispensary for Diseases of Women.

WILLIAM B. SMALL, M. D.,	} Assistant Surgeons in the Dispensary for Diseases of Women.
JOHN H. GIRVIN, M. D.,	
WILLIAM R. NICHOLSON, M. D.,	

JAMES K. YOUNG, M. D., Chief Surgeon in the Orthopædic Dispensary.

RANDOLPH FARIES, M. D.,	} Assistant Surgeons in the Orthopædic Dispensary.
JOSEPH M. SPELLISSY, M. D.,	
HOWARD REED, M. D.,	
CHARLES H. P. SLAUGHTER, M. D.,	

CHARLES S. POTTS, M. D., Chief Physician in the Dispensary for Nervous Diseases.

WILLIAM EVANS, M. D., } Assistant Physicians in the Dispensary for Nervous Diseases.
HENRY A. NEWBOLD, M. D., }
HOWARD MELLOR, M. D., Chief Surgeon in the Dispensary for Diseases of the Eye.

CHARLES C. RANKIN, M. D., } Assistant Surgeons in the Dispensary for Diseases of the Eye.
B. F. RANDOLPH CLARK, M. D., }
CLINTON R. ANKENY, M. D., }

MILTON B. HARTZELL, M. D., Chief Physician in the Dispensary for Diseases of the Skin.

CHARLES N. DAVIS, M. D., Assistant Physician in the Dispensary for Diseases of the Skin.

JAMES M. BROWN, M. D., Chief Surgeon in the Dispensary for Diseases of the Ear.

LEVI J. HAMMOND, M. D., Assistant Surgeon in the Dispensary for Diseases of the Ear.

All communications relating to the Department of Medicine should be addressed to

JOHN MARSHALL, M. D.,

Dean of the Faculty of Medicine,

Office, 1 Medical Hall.

University of Pennsylvania,

Office hours, 2 P. M., daily.

Philadelphia, Pa.

STUDENTS.

FOURTH-YEAR CLASS.

Name.	Residence.	City Address.
Ahlborn, Maurice Bertram,	Wilkesbarre,	Dorm. 227, F.
Alexander, Guy Levis,	Lancaster,	3328 Walnut St.
Allen, Alfred Reginald,	Bethlehem,	3707 Woodland Ave.
Anderson, Harry Miller,	Allentown, N. J.,	122 S. 33d St.
Armstrong, William Nesbitt,	Lock Haven,	3703 Powelton Ave.
Atkinson, Hugh Hamilton,	Asheville, N. C.,	4235 Regent Sq.
B.S. (North Carolina, 1894),		
Babbitt, James Addison,	Haverford,	Haverford College.
B. A. (Yale, 1893); A. M.		
(Haverford, 1896),		
Baldwin, Joseph Rolla, B. S.	Austin, Texas,	3328 Walnut St.
(Texas, 1893),		
Barber, Thomas, A. B.	Phillipsburg, N.J.,	3814 Spruce St.
(Lafayette, 1895),		
Barker, Olin George Andrews, Ph. B. (Lafayette),	Ebensburg,	3707 Walnut St.
Barth, George Peter, A. B.	Milwaukee, Wis.,	3704 Walnut St.
(Wisconsin),		
Becker, Harvey Mayor,	Hanover,	3423 Walnut St.
Bennett, John, Jr.,	Philadelphia,	1614 N. 27th St.
Bernd, Leo Heller,	Macon, Ga.,	Dorm. 254, O.
Bichler, Jacob William,	Middleport,	3249 Mansard Square.
Birnie, Charles Wainwright,	Charleston, S. C.,	3223 Woodland Ave.
Bitzer, Newton Emerson,	Lancaster,	3617 Locust St.
Black, Walter Munro,	Tidioute,	207 De Kalb Sq.
Black, William Letcher, B.S.	Chicago, Ill.	3307 Woodland Ave.
(Westminster, Mo., 1889),		
Bloomhardt, Fred. Herman,	Altoona,	3265 Woodland Ave.
A. B. (Penna. Coll., 1894),		
Boot, George William, M. D.	Hartley, Iowa,	115 S. 34th St.
Borger, Otto Peter,	Philadelphia,	704 S. 4th St.
Bower, Albert Edward,	Marionville,	Dorm. 455, O.
Boyle, Morris Parker,	Philadelphia,	1534 Diamond St.
Bringhurst, Joseph,	Edgemoor, Del.	
Brown, Alexander MacLeod,	Pleasantville,	131 S. 36th St.
B. S. (Amherst),		
Bumstead, Charles Martius,	Decatur, Ill.,	Dorm. 394, O.
Campbell, Oscar, Clayman,	Lancaster,	3326 Walnut St.
Campbell, William McFarlane,	Port Royal,	Dorm. 234, I.
Carey, Harry Keyser,	Philadelphia,	842 N. 19th St.
Casey, Michael Lester, A. B.	Rochester, N. Y.,	3916 Sansom St.
(Rochester),		
Corser, John Bliss,	Allentown,	3328 Walnut St.
Cox, Lester E	Portland, Me.,	3913 Woodland Ave.

Name.	Residence.	City Address.
Craig, Frank Ardary,	Philadelphia,	3417 Baring St.
Crampton, George Sumner,	Rock Island, Ill.,	1503 Spruce St.
Cramer, Alfred, Jr., A. B. (Princeton, 1895),	Cramer Hill, N. J.,	102 S. 36th St.
Crowe, William Wilson,	Philadelphia,	3823 Baring St.
Cruise, John Mulchinock, A. B. (Pennsylvania, 1894),	do.	114 N. 18th St.
Darrah, Percival Walter,	Leavenworth, Kan.,	3604 Walnut St.
Dean, Elmer A	Centreville, Tenn.,	3347 Woodland Ave.
DeLaney, Matthew Augustus,	Waymart,	3953 Baltimore Ave.
Denckla, Herman Albert,	Philadelphia,	2032 De Lancey Place.
Dickinson, Breese Morse, A. B. (Kansas),	Kansas City, Mo.,	Dorm. 431, E.
Dobbyn, George Henry Sawtell, D. D. S.,	Beechworth, Victoria, Australia,	3441 Chestnut St.
Draper, James Avery, Jr., B. A. (Yale, 1895),	Wilmington, Del.,	Dorm. 407, B.
Dunning, Charles Murray,	Trenton, N. J.,	12 S. 20th St.
Eastwood, James Stewart, B. A. (Tufts, 1894),	West Brattleboro', Vt.,	3234 Chestnut St.
Edwards, James Franklin, A. B. (Grove City, 1894),	Slate Lick,	3322 Woodland Ave.
Eichel, Sidney Jacob,	Evansville, Ind.,	Dorm. 136, J.
Elmer, Macomb Kean, B. S. (Princeton, 1895),	Bridgeton, N. J.,	3703 Locust St.
Farr, Clifford Bailey, B. A. (Haverford, 1894),	Wenonah, N. J.,	3314 Powelton Ave.
Farrell, John Aloysius,	West Chester,	3637 Locust St.
Ferry, Ralph Wilson,	Niles Valley,	1748 N. 22d St.
Feldman, Max, Ph. G.,	Newark, N. J.,	3430 Sansom St.
Fetterman, Wilfrid Bernard, Jr.,	Philadelphia,	331 S. Broad St.
Field, William Hill,	Evansville, Ind.,	3346 Walnut St.
Fleming, James Patrick, Ph. B. (Rochester, 1892),	Charlotte, N. Y.,	Dorm. 426, F.
Foerster, Otto Hottinger,	Milwaukee, Wis.,	3604 Walnut St.
Foster, Curtis Smiley, A. B. (Princeton),	East Brady,	Dorm. 502, F.
Francine, Albert Philip, A. B. (Pennsylvania); A. M. (Harvard),	Philadelphia,	1404 Spruce St.
Freeman, Samuel,	Trenton, N. J.,	3430 Sansom St.
Gilfillan, James Sterling, M. D.,	St. Paul, Minn.,	3323 Walnut St.
Gleeson, James Joseph, B. S. (Manhattan, 1894),	New Haven, Conn.,	15 N. 34th St.
Gosman, George Henry, Jr.,	New York,	3604 Walnut St.
Graham, Charles Andrew, A. B. (Yale),	Denver, Col.	Dorm. 241, L.
Grissinger, Jay Weir,	Mechanicsburg,	3711 Woodland Ave.

Name.	Residence.	City Address.
Groh, John Brighthill,	Lickdale,	3322 Woodland Ave.
Grosser, Claudius Robert,	Wilkesbarre,	3806 Spruce St.
Haig, Charles Roberts, Jr.,	Philadelphia,	1901 Master St.
Hanley, Walter Scott,	do.	1255 N. 10th St.
Harbridge, Delamere Forest,	Racine, Wis.,	3328 Walnut St.
Harris, Richard Henry,	Philadelphia,	913 Diamond St.
Henning, Edward Robert,	West Liberty, O.	3946 Pine St.
Hershey, Jacob Davis,	Mountville,	3336 Chestnut St.
Herst, George Reineman,	Pittsburg,	3228 Walnut St.
Hess, William Giles,	Chestnut Level,	2406 N. 15th St.
Hinson, Eugene Theodore,	Philadelphia,	1339 S. 19th St.
Hodges, James Edward,	Georgetown, Texas,	3731 Spruce St.
B. S. (Southwestern),		
Hollingworth, Arthur,	Pawtucket, R. I.,	Dorm. 397, O.
Hoskins, John,	Elwyn.	
Howard, Frederick Hollis,	Philadelphia,	221 St. Mark's Sq.
James, Harry Murray,	New York, N. Y.,	223 S. 3rd St.
Jarvis, George Oglevie,	Portland, Conn.,	3727 Spruce St.
Jefferys, William Hamilton,	Philadelphia,	3928 Walnut St.
A. M. (Pennsylvania, 1897),		
Johnston, John,	do.	1711 Wallace St.
Jones, Thomas Cushing,	do.	3705 Walnut St.
Kaines, Arthur Wiley,	Lykens,	3248 Sansom St.
Kane, James A Bayard,	Philadelphia,	245 S. 15th St.
Kelsay, Clarence,	Evansville, Ind.,	Dorm. 136, J.
Kennedy, Lucius Carter,	Scranton,	102 S. 36th St.
A. B. (Princeton, 1895),		
Kilgore, Frank Dietrich,	Harrisburg,	3221 Sansom St.
King, George Farquhar	Providence, R. I.,	101 S. 37th St.
Jones, B. P. (Brown, 1889),		
Kistler, Arthur Simon,	Mount Jewett,	Dorm. 397, O.
Leavitt, Frank C	Youngstown, Ohio,	3815 Spruce St.
Le Boutillier, Theodore,	Philadelphia,	Dorm. 392, O.
Liggett, Joshua Willard,	Leesville, Ohio,	Dorm. 455, O.
A. M. (Wooster),		
Lindauer, Eugene,	Frostburg, Md.,	Dorm. 224, E.
Linn, Charles Francis, A. B.	Washington,	3417 Hamilton St.
(Washington and Jefferson),		
Lowa, Walter,	Philadelphia,	657 N. Broad St.
Lyon, Charles Hodge,	Wooster, Ohio.	832 N. Broad St.
A. B. (Wooster, 1895),		
Markley, John Morris,	Schwenksville,	3248 Sansom St.
Marsh, Robert Joseph,	Eugene, Oregon,	117 S 34th St.
Mason, Wellington Smith,	Williamstown,	3412 Sansom St.
Miller, James Preston, Jr.,	Livingston, Tenn.,	3711 Woodland Ave.
Miller, John De Mott, A. B.	Peabody, Kan.,	3946 Pine St.
(Kansas State, 1895),		
Mitchell, Charles Franklin,	Wilkesbarre,	Dorm. 227, F.
Mitchell, Edward Dana,	Memphis, Tenn.,	Dorm. 127, G.
Monagan, Charles Andrew,	Waterbury, Conn.,	3609 Locust St.
B. S. (Trinity, 1893),		

Name.	Residence.	City Address.
Moore, Edward Kemp,	Clayton, N. J.,	300 S. 36th St.
Moore, Seth Eastman,	Washington, D.C.,	Dorm. 403, A.
Moran, Patrick Joseph,	Edwardsville,	3806 Spruce St.
Morin, Michelle Arnold,	Jamaica, W. I.,	3347 Woodland Ave.
Murtagh, John Anthony,	Philadelphia,	5624 Willow Ave.
Myers, Albert William,	Milwaukee, Wis.,	3445 Walnut St.
McCauley, William Lloyd,	Stanley, N. Y.,	300 S. 36th St.
A. B. (Princeton, 1894),		
McCloughan, Harvey,	Swartswood, N. J.,	3423 Walnut St.
McCoy, George Walter,	Elkins, W. Va.,	3709 Woodland Ave.
McCullagh, Samuel, A. B.	Worcester, Mass.,	2012 Race St.
(Pennsylvania, 1895),		
McCulloh, William Watson,	Baltimore, Md.	3743 Locust St.
McLinden, James John,	Waterbury, Conn.,	29 N. 36th St.
McWilliams, Frank,	Schuylkill Haven,	32 N. 37th St.
Nichols, Henry Dodge, M.D.	Cincinnati, Ohio,	3425 Walnut St.
A. B. (Cornell, 1896),		
Norris, Charles Camblos,	Philadelphia,	Dorm. 376, K.
Orbison, Thomas James,	Bellefonte,	3537 Locust St.
Ostheimer, Alfred James, Jr.,	Philadelphia,	1229 Locust St.
A. B. (Harvard, 1895),		
Pancoast, Henry Khunrath,	do.	3205 Baring St.
Paynter, Rowland Gardiner,	Georgetown, Del.,	Dorm. 414, C.
B. A. (Yale, 1895),		
Pennell, Howard Yarnall,	Wawa.	
Peters, Urban Joseph Whitehead,	Vicksburg, Miss.,	4235 Regent Sq.
Petry, William,	Newark, N. J.,	Dorm. 404, A.
Phillips, James McIlvaine,	Scranton,	Dorm. 232, H.
Plondke, Frederick John	Everly, Iowa,	115 S. 34th St.
M. D., B. S. (Iowa, 1895),		
Portser, Iden Mayfield,	Greensburg,	3338 Walnut St.
Price, George Elmer,	Philadelphia,	2126 Marshall St.
Quicksall, William Edward,	do.	4903 Penn St., Fkd.
Reid, Robert Stephen,	Savannah, Ga.,	3743 Spruce St.
Remington, Arthur Hart,	Philadelphia,	1832 Pine St.
Richman, Edward Milton,	do.	2030 Brandywine St.
Roberts, Frederick Charles,	Dodgeville, Wis.,	3814 Spruce St.
B. S. (Wisconsin, 1895),		
Robinson, George, Jr.,	Philadelphia,	1930 Gratz St.
Roland, Charles,	Reading,	3808 Spruce St.
Romero, Nicolas,	Masaya, Nic.,	3425 Walnut St.
Roop, Harry Backenstoe,	Highspire,	3326 Woodland Ave.
B. S. (Lebanon Valley, 1892),		
Russ, Witten Booth,	San Antonio, Tex.,	Dorm. 394, O.
Salmon, Leon Trudeau,	Lock Haven,	3346 Walnut St.
Sands, William Hupp,	Fairmont, W. Va.,	3815 Spruce St.
Saylor, Edwin Stanton,	Philadelphia,	3301 Walnut St.
Seymour, Walter Ernest,	Warren, R. I.,	3308 Woodland Ave.
Sexton, Frank Joseph,	Brockton, Mass.,	208 S. 36th St.

Name.	Residence.	City Address.
Shailer, Sumner,	New York, N. Y.,	Dorm. 339, D.
Shoemaker, Walter Ray,	Ebensburg,	3709 Woodland Ave.
Shortlidge, Charles Beverly,	Concordville.	
Smith, Charles Russell, A. B.	Tioga,	3273 Sansom St.
(Union, 1894),		
Smith, Eugene Albert,	Milwaukee, Wis.,	Dorm. 112, C.
Smith, Frank Herbert, A. B.	North Hadley,	767 N. 40th St.
(Amherst, 1893),	Mass.,	
Smitheman, Edward Wright,	Philadelphia,	3510 Hamilton St.
A. B. (C. H. S., 1893),		
Snell, Albert Conrad,	Geneva, N. Y.,	3617 Locust St.
Stanton, William Bancroft,	Whitney Point,	3609 Locust St.
	N. Y.,	
Steele, John Gurdon,	Wellsboro',	3273 Sansom St.
Steer, Samuel Lewis, A. B.	Philadelphia,	2213 Wallace St.
(C. H. S.),		
Stretch, Charles Fullaway,	do.	1623 N. 18th St.
A. B. (C. H. S., 1894),		
Sullivan, John Joseph, M. D.,	Scranton,	3403 Walnut St.
Sutton, Howard Anderson,	Haverford,	300 S. 36th St.
A. B. (Wesleyan, 1895),		
Sweeney, George Alphonso,	Chester.	
Sweet, Earl Bertrand,	Los Angeles, Cal.,	Dorm. 321, B.
Target, John Donald,	Philadelphia,	1220 Ritner St.
Thomas, John Quincy,	Norristown.	
Thompson, Albert Ely, A. B.	Washington,	3261 Woodland Ave.
(Washington and Jefferson),		
Tismer, Gustav Paul,	Berlin, Germany,	3735 Spruce St.
Tobias, John Benjamin,	South Gibson,	3742 Powelton Ave.
Tracy, Stephen Edward,	Richmond, N. B.,	Dorm. 320, B.
Trainer, Robert Fitzimmons,	Williamsport,	3315 Powelton Ave.
Trexler, James E	Philadelphia,	3338 Chestnut St.
Uhle, Alexander Augustus,	do.	8135 Germantown Av.
A. B. (C. H. S., 1894),		
Underwood, Charles Radcliffe,	New Glasgow,	3615 Locust St.
	Nova Scotia,	
Vail, James Lindley,	Branchville, N. J.,	425 N. 33d St.
Van Camp, David William,	Plainfield,	3265 Woodland Ave.
A. B. (Penna. Coll., 1894;		
A. M. 1897),		
Van Epps, Clarence, B. S.	Low Moor, Iowa,	120 S. 34th St.
(Iowa State Coll., 1894),		
Vernon, Samuel Milton, Jr.,	Philadelphia,	252 N. 13th St.
Wales, Joseph Patten, Ph. B.	Wilmington, Del.,	Dorm. 108, B.
(Yale, 1894),		
Warner, Albert Rowland,	Rosemont.	
Warner, Harry Mead, B. S.	Glenn's Falls,	3609 Locust St.
(Cornell, 1895),	N. Y.,	
Weeks, David Fairchild,	Trenton, N. J.,	Dorm. 365, I.
Weidler, Walter Bair,	Lancaster,	3328 Walnut St.

Name.	Residence.	City Address.
Weimer, Clay Holloway, B. S. (Maryland Agricul., 1894),	Cumberland, Md.,	Dorm. 365, I.
Weisser, Edward Andrew,	Pittsburg,	3607 Locust St.
Westervelt, Harry Clarkson,	do.	3731 Locust St.
Wetherill, Henry Emerson, M. D., (Pennsylvania),	Philadelphia,	3734 Walnut St.
Williams, Edward Newlin, B. S. (Swarthmore),	New Hope,	3306 Race St.
Wilson, George Thomas,	Hoosick Falls, N. Y.,	3711 Woodland Ave.
Wilson, Joseph G,	Flushing, Ohio,	1823 Filbert St.
Witherspoon, Charles Russel, A. B. (Rochester, 1894),	Rochester, N. Y.,	3916 Sansom St.
Woodward, Henry Thomas, A. B. (Stanford),	San Diego, Cal.,	3338 Chestnut St.
Worden, Charles Beatty, A. B. (Princeton, 1894),	Philadelphia,	4208 Walnut St.
Yawger, Nathan Shurts,	do.	5015 Greenway Ave.

THIRD-YEAR CLASS.

Anderson, Guy Roland, B.S. (Dickinson Seminary),	Williamsport,	3719 Spruce St.
Anderson, Joseph Wilson,	Ardmore.	
Austin, William Sidney, A. B. (Tennessee, 1895),	Brownsville, Tenn.,	3422 Sansom St.
*Backus, Henry Nelson,	Philadelphia,	2047 Oxford St.
Barnhart, Henry Byers,	Greensburg,	Dorm. 445, M.
Barnhill, Edwin Maurice,	New Philadelphia, Ohio,	3713 Woodland Ave.
Barranco, Marco Antonio,	Tabasco, Mex.,	3220 Chestnut St.
Barry, Chester LeRoy,	Oxford,	3948 Market St.
Behrend, Moses, A. B. (C. H. S., 1895),	Philadelphia,	1324 N. 6th St.
Blackford, Robert Alexander, A. B. (Washington and Jefferson, 1889),	Martin's Ferry, Ohio,	109 S. 34th St.
Bleick, William David,	Newark, N. J.,	3412 Sansom St.
Boardman, Albertus Kellogg,	Sheffield, Mass.,	3437 Chestnut St.
Bock, Franklin William,	Dansville, N. Y.,	Dorm. 311, A.
Bogart, Arthur Emerson,	Philadelphia,	1913 Passyunk Ave.
Bontecou, Howell Sylvester,	Matteawan, N. Y.,	Dorm. 216, D.
Bolan, Herbert Aloysius, A. B. (Georgetown),	Philadelphia,	869 N. 41st St.
*Boston, Samuel Clifford,	do.	1410 Ridge Ave.
Boyd, Harry Wilson, A. B. (Washington and Jefferson),	Pittsburg,	3923 Baltimore Ave.
Bradeen, Fred Barton,	Greenville, Me.,	Dorm. 139, L.
Breed, Maurice Edwards,	Pittsburg,	Dorm. 144, N.

* Pursuing Three-year Course.

Name.	Residence.	City Address.
Brick, Benjamin Kain, B. S. (Bucknell, 1895),	Marlton, N. J.,	117 S. 34th St.
Brown, Samuel Horton, Jr.,	Philadelphia,	744 N. 41st St.
Brown, Frank Wigton,	Concordville.	
Browse, Henry Nicholas,	Grape Island, W. Va.,	Dorm. 391, O.
Burdon, Reginald McIntosh,	Green Bay, Wis.,	4005 Chestnut St.
Burns, Louis Joseph Ignatius,	Philadelphia,	753 S. 20th St.
Busch, John William Augustus,	do.	2208 N. 19th St.
Butz, Jacob Treichler,	Allentown,	Dorm. 214, D.
Byrne, Thomas Joseph,	Philadelphia,	2200 Tasker St.
Caldwell, John Dean,	Hollidaysburg,	Dorm. 325, C.
Carnett, John Berton,	Ansonia,	Dorm. 221, E.
Carpenter, Gilbert Vilas,	Iron Mountain, Mich.,	32 N. 37th St.
Cassidy, Paul Bernard,	Wilkesbarre,	15 N. 34th St.
Chambers, James Quarles, A. B. (Washington and Lee, 1889),	Lexington, Mo.,	Dorm. 450, M.
Christy, George Hill, A. B. (C. H. S.),	Philadelphia,	1739 N. 21st St.
Clemens, Francis, Jr.,	do.	2028 Madison Ave.
Clyde, Harry Edwards,	Chester.	
Comegys, Robert Alexander,	Middletown, Del.,	Dorm. 248, N.
Conaway, Walt Ponder, A. B. (Delaware),	Dover, Del.,	3913 Woodland Ave.
Cooley, Martin Jennings, Jr.,	Savannah, Ga.,	3220 Chestnut St.
Cottle, Louis Albert,	Boston, Mass.,	3925 Baltimore Ave.
Crawford, James Rea, A. B. (Washington and Jefferson, 1894),	Philadelphia,	405 S. 43d St.
Cregar, Peter Bodine, B. S. (Bucknell, 1895),	Annandale, N. J.,	115 S. 34th St.
Crothers, Lewis Haines,	Upland.	
Curtis, Frederic Chester,	West Stockbridge, Mass.,	Dorm. 427, F.
Cutts, William Bryant, A. B. (Bates, 1895),	North Anson, Me.,	Dorm. 361, I.
Dandy, George Brown, Jr.,	Omaha, Neb.,	3445 Walnut St.
Darlington, Emlen Painter,	West Chester,	Dorm. 441, K.
Darlington, Emerson E	New Bloomfield,	3219 Sansom St.
Davis, Edmund Lowndes,	Danville,	3423 Walnut St.
Davis, Harry Thomas,	St. Clair,	741 N. 41st St.
Davies, William Rowland,	Wyoming,	3346 Lancaster Ave.
Davison, Robert E	Ebensburg,	3713 Woodland Ave.
De Bruler, James Presbury,	Evansville, Ind.,	3338 Chestnut St.
De Loffre, Samuel Middleton, B. A. (Ohio State, 1895),	Fort Sam Houston, Texas,	3406 Sansom St.
De Valin, Hugh,	Washington, D. C.,	3441 Walnut St.
Dengler, Clarence Keller,	Pottsville,	3814 Spruce St.
Dewing, Louis A	Boston, Mass.,	3712 Walnut St.
Dickinson, James Edward,	Steelton,	3422 Sansom St.

Name.	Residence.	City Address.
Donaldson, Albert Barnes,	Philadelphia,	1013 Farragut Terrace.
Doran, John,	do.	2043 Christian St.
Downey, Harry A,	Point Pleasant, N. J.,	3433 Walnut St.
Drein, William Clifton,	Wilmington, Del.,	Dorm. 242 L.
Dye, Frank Hazzard, A. B. (C. H. S.),	Philadelphia,	1216 Brown St.
Eisenberg, John Lawrence,	Norristown,	[221 W. Main St.]
Elwell, Alfred Maull,	Bridgeton, N. J.,	416 Saunder's Ave.
Ennis, Joseph,	Burkittsville, Md.,	3740 Locust St.
Enright, James Geary,	Freehold, N. J.,	Dorm. 363, I.
Evans, George Oliver,	Pittsburg,	Dorm. 218, E.
Evans, Joseph Spragg, Jr., A. B. (Haverford, 1895),	West Chester.	
Evans, Thomas Horace,	Philadelphia,	2041 Wallace St.
Fraley, Frederick, Jr., A. B. (Pennsylvania, 1896),	do.	1833 Pine St.
Farquhar, Raymond Rogers,	Norfolk, Va.,	Dorm. 302, A.
Fegley, Theodore Charles,	Orwigsburgh,	202 S. 37th St.
Feidt, Wilson Wellington,	Millersburgh,	3412 Sansom St.
Fisher, William Endy,	Reading,	3223 Sansom St.
Fithian, George Washington,	Bridgeton, N. J.,	4204 Baltimore Ave.
Flynn, John Cajatan,	Salem, N. J.,	3220 Chestnut St.
Fly, Robert Judson,	Easton,	3437 Chestnut St.
Foster, George Benjamin,	Lynn, Mass.,	3913 Woodland Ave.
Fox, William Wellington, A. B. (C. H. S., 1895),	Philadelphia,	2745 N. 11th St.
Franklin, Paul Hutchins,	Portsmouth, Ohio,	3735 Spruce St.
Fritchey, Charles Albert,	Harrisburg,	3420 Sansom St.
Gandy, Raymond Reeves,	Philadelphia,	2332 N. 16th St.
Garth, Robert Mann,	Mill Hall,	3702 Spruce St.
Gay, Clarence Bertram,	Boston, Mass.,	66 N. 36th St.
Gay, William Madison,	Windsor, Vt.,	3422 Sansom St.
Geisler, Howard Dicks, A. B. (C. H. S., 1895),	Philadelphia,	703 W. Cumberland St
Gengenbach, Frank Paul, A. B. (C. H. S.),	do.	1021 Race St.
Gibbons, John Myles,	Scranton,	3604 Walnut St.
Gilmour, Samuel Bayard,	Philipsburg,	3613 Locust St.
Gildersleve, George Henry, Jr.,	Camden, Del.,	208 S. 36th St.
Githens, Thomas Stotesbury,	Philadelphia,	1512 Pine St.
Glosser, Herbert Hartman, B. S. (Penna. State, 1896),	Paoli,	3223 Sansom St.
Goldsmith, Milton,	Connellsville,	3706 Spruce St.
Gorham, Fordyce Clark, M. E.,	Coudersport,	3308 Lancaster Ave.
Gottschalk, Leon,	Chester.	
Graham, William Alexander, A. B. (North Carolina, 1895),	Hillsboro, N. C.,	27 N. 34th St.
Grant, Walter Scott, A. B. (Middlebury),	Cuyahoga Falls, Ohio.,	3428 Sansom St.

Name.	Residence.	City Address.
Green, George Dorsey, B. S. (Penna. State, 1895),	Waddles,	3953 Baltimore Ave.
Greer, Robert Bruce, B. S. (Penna. State, 1895),	Butler,	3537 Locust St.
Grushlaw, Israel,	Philadelphia,	1303 South St.
Halloran, Paul Stacy,	Fort Niobrara, Neb.,	Dorm. 139, L.
Harbert, George Eugene,	Mt. Holly, N. J.,	3709 Woodland Ave.
Harris, Frank Ernest,	Philadelphia,	2010 Girard Ave.
Hedding, Benjamin Edgar, B. S. (Dickinson Seminary),	Morrisdale Mines,	3719 Spruce St.
Heller, Samuel Hess,	Binkley,	3814 Spruce St.
High, William Beidler, A.M. (Princeton, 1891),	Shillington,	3814 Spruce St.
Hoagland, Henry William- son,	Hazleton,	3604 Walnut St.
Hodge, Edward Blanchard, Jr., A.B. (Princeton, 1896),	Philadelphia,	319 S. 41st St.
Hoffman, John William,	Stockton, N. J.,	417 N. 41st St.
Holbrook, Bradbury, A.B. (Harvard, 1895),	Danversport, Mass.,	Dorm. 215, D.
Hollister, Frederic Purdy,	Wilkesbarre,	3160 Sansom St.
Hoover, Percy Daniel, B.S. (Gettysburg, 1895),	Waynesboro,	Dorm. 146, N.
Howell, William Henry,	Round Top,	Dorm. 221, E.
Humphreys, Harry Gass,	San Diego, Cal.,	3441 Walnut St.
Hutchinson, Alfred Dunbar,	Trenton, N. J.,	[311 Chestnut Ave.]
Huyette, Martin Luther,	Shillington,	12 S. 34th St.
Inslee, Fayette L.	Le Raysville,	3619 Locust St.
Irwin, James Willoughby,	Philadelphia,	4634 Chester Ave.
*Irwin, George R.	Clearfield,	3332 Walnut St.
James, Uriah Agrippa,	Wilkesbarre,	202 S. 37th St.
Keim, William Franklin, M.S. (Lincoln, Neb., 1894),	Addison,	3709 Woodland Ave.
Keogh, John Victor,	Dubuque, Iowa,	Dorm. 101, A.
Kluttz, Clarence, B. S. (North Carolina, 1895),	Salisbury, N. C.,	27 N. 34th St.
Kohn, Bernard, B. S. (Pennsylvania, 1895); M.S. (Pennsylvania, 1896),	Philadelphia,	1523 N. 8th St.
*Koonz, William,	do.	2838 Richmond St.
Krebs, Lloyd LeRoy,	Cedar Rapids, Ia.,	Dorm. 314, B.
Lane, Lauriston Job, B. S.	Sao Paulo, Brazil,	Dorm. 141, M.
Langham, William H.	Manor,	Dorm. 445, M.
Laughlin, Harry,	Philadelphia,	2010 Tulip St.
Laird, Arthur Turner, A. B. (Oberlin, 1894),	Hinsdale, Mass.,	Dorm. 435, I.

Name.	Residence.	City Address.
Leaman, Walter John, B. S. (Pennsylvania),	Leaman Place,	3800 Locust St.
Ledbetter, Robert Emmett,	La Grange, Texas,	Dorm. 231, H.
Lessig, James Alfred,	Schuylkill Haven,	202 S. 37th St.
Levering, Guy Percival,	Lafayette, Ind.,	3600 Chestnut St.
Lewis, Eugene Richards,	Dubuque, Iowa,	6329 Sherwood Road.
Lewis, Stephen C A. B. (Grove City, 1895),	Frostburg,	Dorm. 437, I.
Light, Samuel Dawson W	Iona,	3338 Chestnut St.
Light, Israel Jacob Kapp,	do.	3265 Woodland Ave.
Lilley, Wilbur Marchand,	California,	3933 Baltimore Ave.
Lindeman, Charles Edward,	Meadville,	3931 Baltimore Ave.
Lindsey, John Hathaway, A. B. (Brown, 1892),	Fall River, Mass.,	3625 Locust St.,
Lippert, William Henry,	Philadelphia,	1716 N. 18th St.
Livingood, William Worman,	Reading,	Dorm. 389, M.
Loeb, Victor Alexander, A. B. (C. H. S., 1895),	Philadelphia,	957 N. 8th St.
Longwell, Stephen Benton Elkins,	Santa Fé, N. M.,	4445 Chestnut St.
Luther, John Weaver,	Reading,	2033 N. College Ave.
Luburg, Leon Franklin,	Philadelphia,	N. E. 7th and Arch Sts.
Lyon, Leslie Clyde,	Williamsport,	3332 Walnut St.
MacKenzie, Robert H Mor- rell,	Philadelphia,	118 S. 33d St.
McClure, Charles Francis, A. B. (Oberlin, 1895),	Assumption, Ill.,	436 S. 40th St.
McClure, Sorden,	Philadelphia,	21 S. 16th St.
McGowan, Joseph Augustine,	do.	2210 Poplar St.
McKibbin, James Malcolm, B. S. (Penna. State, 1896),	Amaranth,	436 S. 40th St.
Marshall, Joseph Chandler,	Kennett Square,	3322 Woodland Ave.
Meigh, Josiah,	Trenton, N. J.,	3227 Sansom St.
Miller, Thomas Alfred,	Pittsburg,	Dorm. 389, M.
Mills, Harry Brooker,	Philadelphia,	2019 N. 16th St.
Mongel, Ernest Bernhardt, A. B. (C. H. S., 1895),	do.	3255 Irving St.
Montgomery, Beriah Alem- bert, B. S. (Grove City),	Grove City,	Dorm. 437, I.
Moore, Edward Joseph,	Plymouth,	3704 Walnut St.
Muller, George Paul, A. B. (C. H. S.),	Philadelphia,	1930 Wallace St.
Neff, Charles Clarence,	Williamsport,	3422 Sansom St.
Newlin, Arthur, B. S. (Pennsylvania, 1895),	Secane,	Dorm. 230, H.
Newmayer, Solomon, A. B. (C. H. S., 1895),	Philadelphia,	727 South St.
Niedermeier, Arthur F	Trenton, N. J.	
Norris, George William, A. B. (Pennsylvania, 1895),	Philadelphia,	1530 Locust St.
Odell, Thomas George,	Salt Lake City, Utah,	3800 Locust St.

Name.	Residence.	City Address.
O'Meara, John George,	Pawtucket, R. I.,	3311 Walnut St.
Palmer, Loring Brainerd,	Atlanta, Ga.,	26 N. 38th St.
A. B. (Atlanta, 1891),		
Palmer, Myron Botsford,	Union Hill, N. Y.,	Dorm. 443, K.
Parker, Clifford Brick,	Pittsburg,	3712 Walnut St.
Parker, Frank Clareloux,	Norristown.	
Paul, Thomas Morrison,	Philadelphia,	1420 Christian St.
Phinney, Frank Douglas,	Fredericton, N. B.,	66 N. 36th St.
A. B. (New Brunswick, 1895),		
Pike, George Lawrence,	Philadelphia,	126 S. 16th St.
Pittinger, Charles Ru Lon,	Easton,	3741 Spruce St.
Pollard, Walter Byrd,	Norfolk, Va.,	3311 Walnut St.
Potter, Gurdon,	Philadelphia,	4724 Warrington Ave.
Potter, Henry Bertram,	Providence, R. I.,	3711 Woodland Ave.
Pratt, Frank L,	Mansfield,	217 S. 33d St.
Price, Henry Thompson,	Allegheny,	3607 Locust St.
A. B. (Penna. State),		
Rank, David Mummah,	East Hanover,	12 S. 34th St.
Rankin, George Thomas, Jr.,	Akron, Ohio,	Dorm. 338, D.
Ressler, John Lyte,	Mascot,	3225 Sansom St.
Reynolds, Charles Ransom,	Elmira, N. Y.,	122 S. 34th St.
Ridgway, George Malvern,	Trenton, N. J.,	Dorm. 360, H.
Risley, John Norman,	Philadelphia,	Dorm. 112, C.
Ritchie, Marion Delmar,	Harrisburg,	3617 Locust St.
Rivas, Damaso,	Victoria, Nicaragua,	213 S. 33d St.
Roberts, James Eugene,	Lambertville, N. J.,	3931 Baltimore Ave.
Rutter, Thomas Chichester,	Williamsport,	3703 Powelton Ave.
Saeger, Luther Jacob,	Allentown,	2143 Van Pelt St.
Samuel, Meredith Iver,	Wilkesbarre,	3933 Baltimore Ave.
Sanders, Henry Clay, Jr.,	Claremont, N. H.,	3428 Sansom St.
A. B. (Dartmouth),		
Scott, John Bell, A. M.	Philadelphia,	3918 Sansom St.
(Wesleyan, 1881),		
Seitz, Charles Lewis,	Evansville, Ind.,	3338 Chestnut St.
Seymour, Fayette Lionelle,	Port Jervis, N. Y.,	3439 Chestnut St.
Shaffner, John Francis, Jr.,	Salem, N. C.,	27 N. 34th St.
B.S. (North Carolina, 1896),		
Shaw, Farnham Horatio,	Wellsboro',	3302 Lancaster Ave.
Shelmerdine, Edward Kirk-	Philadelphia,	2105 N. 13th St.
land, Jr.,		
Shepherd, Irwin James,	Delaware City, Del.,	32 N. 37th St.
Sherrer, Harry Straub,	Bangor,	3913 Woodland Ave.
Ph. B. (Lafayette, 1896),		
Shifferstine, Edgar Ephraim,	Tamaqua,	3301 Walnut St.
Sichel, Clarence C	Philadelphia,	1812 Mt. Vernon St.
Smith, Edmund Landus,	Alum Bank,	3709 Woodland Ave.
Smith, John Fogg,	Salem, N. J.,	247 S. 15th St.
Smith, Rodney,	Saegertown,	3931 Baltimore Ave.
Smith, Archibald, Jr., B. S.	La Grange, Ga.,	123 S. 34th St.
(Georgia, 1895),		
Smith, William Bernard,	Philadelphia,	1612 Diamond St.

Name.	Residence.	City Address.
Steel, William Albert, A. M. (C. H. S., 1897); B. S. (Pennsylvania, 1895),	Philadelphia,	1734 Park Ave.
*Stehley, Paul Haldeman,	Falling Waters, W. Va.,	3702 Spruce St.
Stemple, John Henry,	Conshohocken.	
Stewart, Thomas Somerville, Jr.,	Philadelphia,	1031 Spruce St.
Stewart, Charles Rowland,	Indiana,	3948 Pine St.
Stith, Robert Marcus,	Muscatine, Iowa,	3330 Lancaster Ave.
Stock, George Andrew,	Gettysburg,	33 N. 37th St.
Stotsenburg, James McPherson,	Philadelphia,	5135 Hadfield St.
Stroup, Asbury Clarke, A. B. (C. H. S., 1895),	do.	1231 N. 12th St.
Sturges, Leigh Francis,	Lewiston, Me.,	3705 Spruce St.
Swindells, Walton Creadick,	Philadelphia,	1827 Tioga St.
Taylor, Robert Fletcher,	do.	2450 Amber St.
Templeton, Harry Gorham,	Plymouth,	204 S. 36th St.
Thatcher, Paxson Blakey,	Philadelphia,	3500 Hamilton St.
Thaw, James Rogers,	Milford, Del.,	3939 Locust St.
Tompkins, Erle Duncan, B. S. (Iowa),	Clear Lake, Iowa,	3617 Locust St.
Traynor, Joseph Eugene,	Wilmington, Del.,	[615 West St.]
Troutman, George Christian,	Pottsville,	Dorm. 438, K.
Updegraff, Harry Covode,	Fort Palmer,	3948 Pine St.
Uptegrove, Edward Pierson,	Middletown, N. Y.,	3422 Sansom St.
Van der Bogert, Frank, A. B. (Union),	Schenectady, N. Y.,	Dorm. 141, M.
Van Kirk, Herbert Spencer,	McKeesport,	3413 Walnut St.
Wanamaker, John, 3d,	Philadelphia,	1511 Mt. Vernon St.
Ward, William Douglas, A. B. (Princeton),	Rochester, N. Y.,	300 S. 36th St.
Wareham, Arthur,	Philadelphia,	3216 Hewson St.
Warnick, Joseph Simms, Jr., A. B. (C. H. S.),	Frankford,	4929 Penn St., Fkd.
Warren, Franklin Lafayette, B. S. (Boston University, 1895),	Shirley, Mass.,	3308 Lancaster Ave.
Wharton, Charles Marriam,	Smyrna, Del.,	3445 Walnut St.
Whealton, Aydelotte Will, A. B. (Western Md., 1893),	Chincoteague, Va.,	3933 Baltimore Ave.
Whiteway, Harold Morse,	Philadelphia,	4336 Sansom St.
Wiesenberger, Theodore Herman,	S. Bethlehem,	3338 Walnut St.
Wilcox, Archa Edward,	Minneapolis, Minn.,	300 S. 36th St.
Williams, Amos Thomas, Ph. B. (Bucknell, 1896),	Ridgway,	204 S. 36th St.

* Pursuing Three-year Course.

Name.	Residence.	City Address.
Willson, Arthur Joshua,	Williamsport,	3215 Powelton Ave.
Wintersteen, Thomas Beaver,	Danville,	3471 Sansom St.
Wolf, Wilbert Joseph, A. B.	Philadelphia,	3500 Frankford Ave.
(C. H. S.),		
Woodburn, Charles Ladd,	Towanda,	3248 Sansom St.
A. B. (Princeton, 1896),		
Woods, Andrew Henry, A. B.	Martinsburg,	Dorm. 450, M.
(Washington and Lee, 1893),	W. Va.,	
*Woods, Harvey Wharton,	Blain,	108 S. 33d St.
Wunder, Charles Whitall,	Philadelphia,	4802 Springfield Ave.
Young, Frank Raymond,	Smethport,	3609 Locust St.
B. S. (Trinity),		
Ziegler, Samuel Mason, A. B.	Mercer,	Dorm. 502, F.
(Grove City, 1895),		

SECOND-YEAR CLASS.

Adams, Wilmer,	Easton, Md.,	3413 Walnut St.
Aitken, John Fulton, Jr.,	Reno, Nev.,	Dorm. 301, A.
Allen, Francis Olcott, Jr.,	Chestnut Hill,	1539 Pine St.
A. B. (Princeton, 1896),		
Ashhurst, Astley Paston	Philadelphia,	2000 W. DeLancey Pl.
Cooper, A. B. (Pennsyl-		
vania, 1896),		
Ashley, Charles,	Plymouth,	204 S. 36th St.
Asher, Joseph Mastbaum,	Philadelphia,	1527 Girard Ave.
A. B. (C. H. S., 1896),		
Attix, Fred Franklin,	Glenwood Springs,	3308 Woodland Ave.
	Col.,	
Atlee, John Light, A. B.	Lancaster,	Dorm. 239, K.
(Franklin and Marshall,		
1896),		
Axford, W Homer,	Naughtright, N. J.,	3709 Woodland Ave.
Baldwin, James Harvey,	West Liberty, O.,	3433 Walnut St.
A. B. (Wooster, 1897),		
Banton, Conwell,	Philadelphia,	1210 Christian St.
Bare, Horace Cleveland,	do.	2030 Mt. Vernon St.
Barnard, Everett Pusey,	Collamer,	3804 Spruce St.
Bernardy, Henry Leander,	Philadelphia,	221 S. 17th St.
B. S. (Pennsylvania, 1897),		
Bertolet, William Schaeffer,	do.	4403 Chestnut St.
A. B. (Franklin and Mar-		
shall, 1897),		
Bishop, Franklin Lee,	Boston, Mass.,	3344 Walnut St.
Blose, Daniel Patterson,	McKeesport,	Dorm. 137, K.
Bly, Perry Amidon,	Rochester, N. Y.,	3600 Chestnut St.
Booth, William Arthur,	Philadelphia,	3607 Locust St.
Bowen, Frederick Colin	Bridgetown, Bar-	110 S. 33d St.
Hugh,	badoes, W. I.,	
Bradley, Charles Augustine,	Philadelphia,	4422 Parrish St.

* Pursuing Three-year Course.

Name.	Residence.	City Address.
Bremer, Paul Frederick,	Philadelphia,	1723 Spring Garden St.
Brosius, Peter Francis,	Ashland,	3471 Sansom St.
Browne, Charles, A. B. (Princeton, 1896),	Philadelphia,	1126 Spruce St.
Buchanan, Thomas Claire,	Honeybrook,	3717 Spruce St.
Burns, John MacGregor,	Mansfield, Ohio,	3311 Walnut St.
Butler, Ralph,	Philadelphia,	2133 Green St.
Butte, Harley Jones,	Ashland, Neb.,	615 S. 27th St.
Campbell, William King,	Long Branch, N. J.	31 N. 36th St.
Carpenter, Howard Childs,	Philadelphia,	1523 Locust St.
Carroll, George Gregory,	Rochester, N. Y.,	Dorm. 426, F.
Chandlee, William Herbert,	Sunnyburn,	2620 Bridge St., Bdg.
Chapin, David Raymond,	Brooklyn, N. Y.,	Dorm. 131, H.
Clothier, Joseph, B. S. (C. H. S.),	Philadelphia,	2439 Cedar St.
Coca, Arthur Fernandez, A. B. (Haverford),	Wayne.	
Coffin, Jacob Morgan,	Philadelphia,	221 De Kalb Sq.
Coleman, Thomas, A. B. (Lincoln),	Augusta, Ga.,	1730 Addison St.
Colgan, John A	Philadelphia,	2221 N. Broad St.
Conner, William Borden,	Bridgeton, N. J.,	3254 Chancellor Place.
Constien, Rudolph Adam,	Ashland,	Dorm. 410, L.
Cope, John Cozar,	Greensburg,	3715 Spruce St.
Cope, Thomas Appleton,	Philadelphia,	Dorm. 333, C.
Cracraft, William Allen, Jr.,	Wheeling, W. Va.,	3913 Woodland Ave.
Crosby, William Smythe, A. B. (C. H. S., 1895),	Philadelphia,	3215 Powelton Ave.
Cruikshank, Omar Trees,	Wilkinsburg,	Dorm. 382, M.
Cunningham, Edward Joseph,	Philadelphia,	1537 S. Broad St.
Dale, Frederick Allport, B. S. (Penna. State, 1893),	Lemont,	Dorm. 127, G.
Decker, Clinton Lloyd,	Boonton, N. J.,	3717 Spruce St.
DeSilver, Joseph Francis,	Washington, D.C.,	3704 Walnut St.
DeWitt, Wallace,	Fort Monroe, Va.,	Dorm. 239, K.
Dickson, John,	Broughshane, Ireland,	3308 Woodland Ave.
Dill, Wallace Wright,	Norristown.	
Dorrance, George Morris, Jr.,	Bristol,	Dorm. 312, B.
Dorsett, Rae Shepard, B. S. (Oberlin, 1896),	Oberlin, Ohio,	126 S. 34th St.
Dougherty, John, B. S. (C. H. S.),	Philadelphia,	3625 Walnut St.
Downing, William Alex- ander,	Arlington Heights, Mass.,	4142 Parrish St.
Drake, Francis James, Ph. B. (Lafayette, 1894),	Phillipsburg, N.J.,	3814 Spruce St.
Ehrlick, Benjamin Praskor,	San José, Cal.,	1623 Arch St.
Elrick, Robert Black,	Harrisville,	3717 Spruce St.

Name.	Residence.	City Address.
Engle, Guy David,	Hazleton,	Dorm. 103, A.
Ewing, William Bingham,	West Grove,	3263 Woodland Ave.
Fahy, John Eugene,	Philadelphia,	1609 N. 10th St.
Findley, Joseph Dysart, A. B.	Altoona,	Dorm. 212, C.
(Lafayette, 1897),		
Fischer, Herman Adam,	Wilkesbarre,	223 S. 33d St.
Flannery, Henry, Jr.,	Douglassville,	Dorm. 104, A.
Foster, Albert Lee,	San Francisco, Cal.,	[Westmont, N. J.]
Fraser, Frederick Alexander,	Providence, R. I.,	3702 Spruce St.
Fretz, Howard Gurney, A. B.	Palmyra,	3702 Spruce St.
(Franklin and Marshall, 1897),		
Fretz, Samuel Edward,	Sellersville,	3702 Spruce St.
Gamez, Octavio Augusto,	Rivas, Nic.,	3337 Woodland Ave.
Gilpin, Friend Bennett,	Newfoundland,	3804 Spruce St.
Gildersleeve, Nathaniel,	Brookston,	Dorm. 435, I.
Goepp, Rudolph Max,	Philadelphia,	108 S. 20th St.
Goldberg, Harold Goodman,	do.	1518 Diamond St.
Gomez, Gustavo,	Managua, Nic.,	3735 Walnut St.
Goss, Charles,	Philadelphia,	1840 E. Huntingdon St.
Graf, Edmund Lewis,	do.	4813 Baltimore Ave.
Graves, Everett Amos,	Nottingham,	3267 Woodland Ave.
Greaves, John Dale,	Warren,	Dorm. 116, D.
Hagey, Arch Raymond,	Martinsburg,	3607 Locust St.
Haines, Edgar James,	Marlton, N. J.,	Dorm. 381, M.
Harris, Frank,	Trenton, N. J.,	[32 Fowler St.]
Harrison, Frank,	East Liverpool, O.,	3338 Walnut St.
Hawke, Wilfred Wetherill,	Brooklyn, N. Y.,	3217 Powelton Ave.
Heilman, Sharon Peter,	Kittanning,	3609 Locust St.
A. B. (Princeton, 1896),		
Hershey, George Bear,	Black Horse,	3611 Locust St.
Hesse, Herman Wm., A. B.	Savannah, Ga.,	3615 Locust St.
(Newberry, 1895),		
Hickson, William James,	New York, N. Y.,	3425 Walnut St.
Hinrichs, August Gustav,	San Francisco, Cal.,	1400 N. 16th St.
Holland, Cecil Frank,	St. Eleonors,	3606 Locust St.
	P. E. I.,	
Holler, Henry Godfrey,	Williamsport,	Dorm. 326, C.
Hooker, Richard Sydney,	Philadelphia,	4422 Chestnut St.
Hosmer, Charles Morton,	Maryville, Mo.,	205 S. 33d St.
Hoyt, Daniel Mansfield,	Philadelphia,	3604 Chestnut St.
B. P. (Brown, 1896),		
Hume, John Elias, A. B.	do.	1703 Montgomery St.
(Haverford, 1897),		
Hunter, Harry C	Greensburg,	3261 Woodland Ave.
A. B. (Washington and		
Jefferson, 1897),		
Hunter, John Wilson, B. S.	Philadelphia,	1302 South St.
(Pennsylvania, 1897),		
Husband, George Lionel,	Hamilton, Can.,	Dorm. 398, O.
Ireys, Junius Taylor, B. S.	Greenville, Miss.,	124 S. 34th St.
(Mississippi, 1896),		

Name.	Residence.	City Address.
Irvin, Spencer Potter, Jr., A. B. (C. H. S., 1896),	Philadelphia,	1157 S. 19th St.
Ives, Frederick Merwin, B. S. (Pennsylvania, 1888), C. E. (Pennsylvania, 1889),	New York, N. Y.,	Dorm. 412, B.
Jackson, William R.	Towanda,	3423 Walnut St.
Jacobs, Francis Brinton, B. S. (Haverford),	West Chester,	1318 Spruce St.
Johnson, William Sidney,	Philadelphia,	4214 Walnut St.
Jones, Russell Robins,	Pottsville,	Dorm. 208, B.
Jordan, Thos. Barnett Lewis,	Williamsport,	Dorm. 328, C.
Katzenstein, George Paul, B. S. (Wisconsin, 1896),	Milwaukee, Wis.,	Dorm. 334, C.
Keech, Harry Brown, A. B. (Lincoln, 1893),	Tweedale,	3611 Locust St.
Kelly, Samuel John Joseph, A. B. (La Salle, 1894),	Philadelphia,	2102 N. 6th St.
Kemp, John Hamilton,	do.	2054 South St.
Kirby, Holder Crary,	New Bedford, Mass.,	Dorm. 208, B.
Knorr, John Keyser, Jr.,	Philadelphia,	1943 N. Broad St.
Koons, Robert Ottens, B. S. (Bucknell, 1897),	Conyngham,	3266 Sansom St.
Kratz, Charles Sumner,	New Britain,	Dorm. 309, A.
Lamson, Roy Clifton,	Neosho, Mo.,	3338 Lancaster Ave.
Landenberger, John,	Rock Spring, Wyo.,	Dorm. 401, A.
Large, Charles Peters,	Buckingham,	Dorm. 318, B.
Lauve, Numa Olivier,	Galveston, Texas,	3413 Walnut St.
Law, Frederick M.	Cleveland, Ohio,	3800 Locust St.
Leshner, Thompson Mulford,	Philadelphia,	1436 N. 18th St.
Levi, Isaac Valentine, A. B. (C. H. S., 1896),	do.	939 Franklin St.
Lewald, Samuel,	do.	818 N. 8th St.
Little, Thomas Robinson, B. S. (North Carolina, 1895),	Little's Mills, N. C.,	Dorm. 387, M.
Little, William Lawson,	Shelbyville, Tenn.,	Dorm. 387, M.
Loudon, Edward Whitmer, B. S. (Gettysburg, 1896),	Altoona,	3338 Walnut St.
Lukens, George Thomas, A. B. (Pennsylvania, 1896),	Conshohocken,	Dorm. 114, D.
Lutz, Hiram Lutz,	Thurlow.	
MacLachlan, Archibald Alexander, A. B. (Wash- ington and Jefferson, 1897),	Claysville,	3261 Woodland Ave.
Mackin, Thomas Henry,	Wilkesbarre,	3704 Walnut St.
Marcy, Virgil Maro Dow,	Cape May, N. J.,	[332 Penn St.]
Marshall, Clifford Cleland, B. S. (Pennsylvania, 1897),	Sharon,	Dorm. 133, J.
Martin, Collier Ford,	Ardmore.	
Mason, Luther Smith, A. B. (Bates, 1896),	Belfast, Me.,	Dorm. 361, I.

Name.	Residence.	City Address.
Mendenhall, Clinton Dickinson,	Bordentown, N. J.,	Dorm. 251, O.
Megargee, George Lewis,	Coatesville,	Dorm. 234, I.
Miller, Victor Davis, Jr.,	Mason-Dixon,	Dorm. 367, K.
Mitchell, Charles Henry,	Trenton, N. J.,	[640 Centre St.]
Mitchell, Henry Arthur,	Elkton, Md.,	3704 Spruce St.
Möllman, Rudolph Clarence,	Philadelphia,	3604 Walnut St.
Mosman, Beriah Edwin, Jr.,	Greenville,	Dorm. 218, E.
Müller, William Kolce,	Philadelphia,	Dorm. 354, H.
Myers, Hewitt Clyde,	Alexandria,	3336 Chestnut St.
McAvoy, George Lawrence,	Willimantic, Conn.,	3712 Walnut St.
McCool, Joseph Lettelle,	Pottsville,	Dorm. 330, C.
McCreight, Charles,	Philadelphia,	1358 Marlboro St.
McCurdy, John R	Monongahela,	3261 Woodland Ave.
A. B. (Washington and Jefferson),		
McDevitt, Charles Howard,	Philadelphia,	239 Centre St., Gtn.
McGuire, James Joseph,	Trenton, N. J.,	15 N. 34th St.
McVean, Charles Homer,	York, N. Y.,	Dorm. 362, I.
McVean, Stuart N	do	Dorm. 362, I.
B. S. (Westminster),		
Newhall, Avery Lester,	Peabody, Mass.,	Dorm. 307, A.
Nichols, William,	Philadelphia,	2115 Bainbridge St.
Oestereich, Edward Collins,	Bethlehem,	3241 Sansom St.
Oestreich, Henry Nicholas,	St. Clair,	129 S. 36th St.
O'Connor, Roderic,	Philadelphia,	4127 Woodland Ave.
Ohlman, Isaac Loeb, A. B.	Meadville,	3435 Walnut St.
(Allegheny, 1896),		
O'Reilly, Charles Aloysius,	Reading,	3311 Walnut St.
Osgood, Walter Wordsworth,	Chicago, Ill.	4830 Westminster Av.
Outland, John Henry,	Glen Elder, Kan.,	3423 Walnut St.
Paul, Frederick Marshall,	Millington, N. J.,	1126 Spruce St.
A. B. (Princeton, 1896),		
Pratt, James Guy,	Fulton, N. Y.,	3256 Chestnut St.
Price, Charles Will,	Edwardsdale,	9 N. 36th St.
Purnell, Harry Selby,	Berlin, Md.,	Dorm. 331, C.
Raunick, John Martin Julius,	Steelton,	3412 Sansom St.
Rhoads, Joseph Edward, Jr.,	Harrisburg,	Dorm. 211, C.
Rice, Fred,	Gordon,	1225 S. 47th St.
Richards, Emrys,	Wilkesbarre,	13 N. 36th St.
Richards, Francis Palmer,	Belvidere, N. J.,	Dorm. 250, N.
Riggin, Levi Lore, Ph. B.	Port Norris, N. J.,	204 S. 36th St.
(Bucknell, 1894),		
Roberts, Harry Stout, A. B.	Philadelphia,	920 Clinton St.
(Harvard),		
Robinson, Edwin Taylor,	do.	Dorm. 332, C.
Rosenthal, Jacob, B. S.	Petoskey, Mich.,	3433 Walnut St.
(Notre Dame, 1897),		

Name.	Residence.	City Address.
Rosenthal, Samuel Hendricks,	Rochester, N. Y.,	Dorm. 253, O.
Ross, Alexander Scanlin, A. B. (C. H. S., 1896),	Philadelphia,	748 N. 20th St.
Rupp, Frederick Augustine, A. B. (Franklin and Marshall, 1897),	Lancaster,	6 S. 38th St.
Sandt, Frank Raymond,	Easton,	3737 Sansom St.
Saunders, John,	Wilmington, Del.	
Scammell, Frank George,	Trenton, N. J.,	3702 Spruce St.
Schrack, William Dunton,	Philadelphia,	248 Harvey St., Gtn.
Schwartz, George Jacob,	Jenkintown.	
Seely, Frank Edmond,	Jersey Shore,	3643 Locust St.
Seeley, John, Ph. B. (Cornell, 1896),	Woodhull, N. Y.,	109 S. 34th St.
Shellenberger, Edward Burgin,	Philadelphia,	5505 Germant'n Ave.
Shields, William Grant, Jr.,	do.	412 School Lane, Gtn
Shoemaker, Albert Moore,	Phoenixville.	
Shupp, Eugene Austin,	Brodheadsville,	3241 Sansom St.
Singer, Benjamin Louis,	Carbondale,	3953 Baltimore Ave.
Sinkler, Francis Wharton, A. B. (Pennsylvania, 1897),	Philadelphia,	1606 Walnut St.
Smart, John Leo,	do.	2207 Pine St.
Smith, Forrest Bedford,	Belton, Texas,	3731 Spruce St.
Smyser, Harry David,	York,	4041 Green St.
Snow, Morton McCulloch,	Chicago, Ill.,	3617 Locust St.
Solis-Cohen, Myer, A. B. (Pennsylvania, 1897),	Philadelphia,	Wissahickon Av., Gtn.
Staab, Edward Adolph, A. B. (Swarthmore, 1894); A. B. (Harvard, 1896),	Sante Fé, N. M.,	3725 Locust St.
Stahr, Charles Patterson, A. B. (Franklin and Marshall, 1897),	Lancaster,	Dorm. 148, O.
Steinhart, Lewis Philip, B. S. (C. H. S., 1896),	Philadelphia,	616 South St.
Stiles, Francis Augustus,	Fulton, N. Y.,	Dorm. 379, M.
Stites, Thomas Henry Atherton, A. B. (Princeton),	Wyoming,	3801 Ludlow St.
Struble, Harry Beech,	Trenton, N. J.,	3607 Locust St.
Suarez, Camilo Alberto,	Cucuta, U. S. Col.,	Dorm. 388, M.
Sulouff, Samuel Henry,	Patterson,	1237 S. Broad St.
Swallow, Frank Louis,	Lambertville, N. J.,	3709 Woodland Ave.
Sweazey, Virge Eugene,	Savinsville,	3423 Walnut St.
Tagg, Oscar,	Philadelphia,	717 Fairmount Ave.
Taylor, Frank,	Hazleton,	Dorm. 390, M.
Taylor, John Martin, B. S. C. E. (Missouri, 1882),	Blackburn, Mo.,	Dorm. 319, B.
Torian, Oscar Noel, A. B. (Univ. of the South),	Evansville, Ind.,	3346 Walnut St.

Name.	Residence.	City Address.
Todd, James Campbell, Ph. B. (Wooster, 1897),	Wooster, Ohio,	3433 Walnut St.
Turner, Charles Root, A. B. (Univ. of N. C., 1895),	Raleigh, N. C.,	4235 Regent Square.
Walker, Claude William,	Scranton,	Dorm. 135, J.
Walker, John Keasby,	Philadelphia,	1632 Spruce St.
Walker, Warren,	do.	1632 Spruce St.
Walters, Francis Joseph,	Laurel Springs, N. J.,	704 S. 4th St.
Waechter, John Louis,	Philadelphia,	811 Randolph St.
Wampole, Henry Smith,	do.	2101 N. 19th St.
Watt, James,	Brooklyn, N. Y.,	Dorm. 137, K.
Webster, Daniel K	Philadelphia,	2703 Ann St.
Weinberg, Herman,	Youngstown, O.,	3443 Walnut St.
Wentz, Perry,	Drifton,	Dorm. 246, M.
Wheeler, William Bradley,	Westport, Conn.,	Dorm. 369, K.
Williams, Hiram Tobias,	Philadelphia,	1233 Pine St.
Wilson, Thomas Henry, A. B. (Oberlin, 1895),	Churchville, Md.,	758 Warnock St.
Winsor, Henry,	Haverford,	3537 Locust St.
Winn, Lochlin Minor, A. B. (Washington and Lee),	Clayton, Ala.,	3347 Woodland Ave.
Wright, Galen Rowe,	Baltimore, Md.,	Dorm. 359, H.
Zeitz, Arthur Clemens,	Sydney, Aus.,	110 S. 33d St.
Ziegler, Charles Edward, Ph. B. (Dickinson, 1896),	Carlisle,	Dorm. 436, I.

FIRST-YEAR CLASS.

Allen, Harrison, Jr., B. S. (Pennsylvania, 1897),	Philadelphia,	1933 Chestnut St.
Amrock, John Henry,	Waltham, Mass.,	3304 Woodland Ave.
Andress, William Russell,	Philadelphia,	2604 Ridge Ave.
Arnold, John Alfred,	do.	4815 Regent Square.
Bainbridge, Empson Haines,	do.	1505 Poplar St.
Barnes, Benjamin Franklin, Jr.,	Monticello, Fla.,	3423 Walnut St.
Barton, James Lloyd,	Waterford,	Dorm. 420, E.
Bennett, William Fred,	Nanticoke,	305 S. 39th St.
Bertolet, Walter Melot, A. B. (Franklin and Marshall, 1897),	Reading,	436 S. 40th St.
Blakeslee, Walter Herbert, A. B. (Amherst, 1897),	Coatesville,	3923 Baltimore Ave.
Boggs, Thomas Richmond, B. S. (Georgia, 1896),	Athens, Ga.,	123 S. 34th St.
Boyer, Arthur Truman,	Camden, N. J.,	[1131 S. 4th St.]
Braden, Frank Robert,	Washington, Kan.,	3214 Chestnut St.
Brooks, Macy, A. B. (Princeton, 1896),	Philadelphia,	117 N. 33d St.
Brooks, Ralph,	Canton,	3248 Sansom St.
Bryan, Herman,	Carthage, Mo.,	3946 Pine St.

Name.	Residence.	City Address.
Cadwalader, William Biddle,	Fort Washington.	
Callan, Lewis J White,	Yonkers, N. Y.,	3609 Locust St.
Carmichael, Arthur,	Sandy Lake,	3336 Chestnut St.
Carpenter, William Dorr,	Philadelphia,	228 S. 21st St.
Cheston, Daniel Murray, Jr.,	do.	1835 Chestnut St.
Childs, William Hesser,	Jersey Shore,	3256 Chestnut St.
Clifton, Harry Coltman,	Philadelphia,	1916 N. 21st St.
Cook, George William,	York.	Dorm. 399, O.
Cowdery, William Augustus,	Philadelphia,	1720 De Lancey Place.
Cummins, Robert Perry,	Bellaire, O.,	3259 Woodland Ave.
Dalbey, James Percival,	Philadelphia,	4715 Baltimore Ave.
Davis, William Nevins,	Summit Hill,	3346 Walnut St.
Dettre, Read Ronald,	Norristown,	1302 De Kalb St.
Dillard, Henry Kuhl, Jr.,	Philadelphia,	234 S. 20th St.
Dinan, Raymond Aloysius,	South Bethlehem,	3338 Walnut St.
Doig, Arthur Knox,	Asbury Park, N. J.,	3249 Sansom St.
A. B. (Union, 1894),		
Donley, John Edward, Jr.,	Providence, R. I.,	[28 Fulton Ave.]
A. B. (Seton Hall, 1897),		
Drumheller, Walter Edwin,	Shamokin,	3323 Walnut St.
Dukes, John Levi,	Denton, Md.,	1020 N. 43½ St.
Dunn, John T	Philadelphia,	663 N. 33d St.
Duryee, Albert Plummer,	Everett, Wash.,	Dorm. 342, E.
Eberly, Austin Coover,	Mechanicsburg,	3346 Lancaster Ave.
Echard, Thomas Butter- more,	Connellsville,	1240 S. 15th St.
Elliot, Arnold,	Philadelphia,	233 S. 40th St.
Erieg, Frank Le Verne,	Williamsport,	3256 Chestnut St.
Ewing, George Justice,	Philadelphia,	3926 Chestnut St.
Falkowsky, Charles, Jr.,	Scranton,	131 S. 36th St.
Fegley, Frederick William,	Allentown,	3338 Walnut St.
Finley, Theodore Gawn,	Bridgeton, N. J.,	3706 Spruce St.
B. S. (Earlham),		
Flickwir, Arthur Heath,	Beardstown, Ill.,	3234 Chestnut St.
Fransioli, Harry Peter,	Memphis, Tenn.,	3427 Woodland Ave.
French, Ralph William,	Matamoras,	3256 Walnut St.
Fox, Herbert, A. B.	Philadelphia,	1803 Tioga St.
(C. H. S.),		
Fox, Henry Landell,	do.	2222 Spruce St.
Forsythe, James Perkins,	do.	202 N. 34th St.
Gardiner, John Paterson,	Toledo, O.,	3702 Spruce St.
Garton, Walter Elwood,	Philadelphia,	240 N. 63d St.
Gash, Charles Otho,	Bradford,	2005 Chestnut St.
Gaugham, Martin Charles,	Pittston,	111 S. 34th St.
Geale, William Francis,	New York, N. Y.,	Dorm. 303, A.
Geer, Le Roy Thomas,	Seneca Falls,	2347 St. Alban's Place.
	N. Y.,	
Gerhard, James Rieser, A. B.	Douglasville,	Dorm. 104, A.
(Yale, 1897),		
Gerry, Carroll Hunter,	Shrewsbury,	3423 Walnut St.
Gleason, Benjamin Whitney,	Boston, Mass.,	3344 Walnut St.

Name.	Residence.	City Address.
Gobeille, Louis Napoleon,	Woonsocket, R. I.,	105 S. 34th St.
Graham, Joseph,	Hillsboro, N. C.,	27 N. 34th St.
Greene, S Harry	New York, N. Y.,	3422 Sansom St.
Grove, Frank Paul,	Alexandria,	3336 Chestnut St.
Haff, Charles Alfred,	Cementon,	215 S. 33d St.
Hall, John Baptiste, Jr., Ph. B. (Yale),	New Orleans, La.,	Dorm. 315, B.
Hall, William Charles	Pittsburg,	3344 Walnut St.
Hamilton, Benjamin Wallace,	Harrisburg,	Dorm 364, I.
Harrah, James Aitken,	Williamsport,	Dorm. 115, D.
Hartzell, Solomon Myer,	Youngstown, O.,	3443 Walnut St.
Hayden, John Francis,	Bryn Mawr,	Bryn Mawr.
Hazen, Roland,	Cincinnati, O.,	260 S. 38th St.
Heck, John Anthony,	Philadelphia,	510 Jefferson St.
Hedges, John,	do.	5534 Pulaski St., Gtn.
Henderson, Thomas Dyer,	Pulaski, N. Y.,	3301 Walnut St.
Heysinger, James Downie,	Philadelphia,	1426 Girard Avenue.
Hill, Harry Annis,	Bethlehem,	3926 Pine St.
Holman, Frank Kennedy,	Sumter, S. C.,	3430 Sansom St.
Hom, Garret Frank,	Lehighton,	215 S. 33d St.
Howard, Alfred Philo,	Palestine, Tex.,	Dorm. 359, H.
Hungerbuehler, John Con- rad, B. S. (C. H. S.),	Philadelphia,	636 Callowhill St.
Illman, George Morton,	do.	3344 Walnut St.
Jennings, Charles Wilhelm,	Harrisburg,	3345 Woodland Ave.
Johnson, James McDowell,	Mercersburg,	3703 Woodland Ave.
Johnson, Winder L	Hulmeville.	
Jones, Ross Holman,	Coudersport,	3308 Lancaster Ave.
Kearney, William Stone,	McKeesport,	3715 Spruce St.
Kellogg, Charles Elyphalt,	Herkimer, N. Y.,	206 S. 36th St.
Kelly, James Alphonsus, A. B. (La Salle),	Philadelphia,	4257 Main St., Myk.
Keucher, Otto Ernst Ru- dolph,	do.	3216 Mt. Vernon St.
Kiesel, Ernest Louis Alex- ander,	Scranton,	3346 Lancaster Ave.
King, Elston Fullerton, Ph. B. (Iowa, 1894),	Panora, Iowa,	3712 Walnut St.
Koenig, Arthur Scott,	Lewistown,	Dorm. 411, B.
Koerper, Conrad Epping,	Omaha, Neb.,	Dorm. 359, H.
Kuemmerle, Edward F	Philadelphia,	814 N. 7th St.
Kunkle, Warren Daniel,	Allentown,	Dorm. 432, G.
Lake, Frederick Williams,	Omaha, Neb.,	120 S. 34th St.
Lamade, Albert Charles,	Williamsport,	3439 Woodland Ave.
Landauer, Oscar,	Philadelphia,	1151 S. Broad St.
Langdon, Heilner Maxwell,	do.	1536 Mt. Vernon St.
Lant, William James,	Lancaster,	Dorm. 428, F.
Lindsay, Albert,	Chester,	[218 Franklin St.]
Litch, Milton Brentwood,	Steelton,	3412 Sansom St.

Name.	Residence.	City Address.
Loftus, Thomas Vincent,	Carbondale,	3646 Locust St.
Longstreet, Chalmer Joseph,	Mexico, N. Y.,	3346 Walnut St.
Lummis, Clarence Percy,	Cedarville, N. J.,	3946 Pine St.
Lummis, Marshall Flower,	Bridgeton, N. J.,	3946 Pine St.
Lungren, Harry,	Wilmington, Del.,	502 N. 9th St.
Luper, Daniel Bret,	Philadelphia,	4124 Girard Ave.
Lyon, Donald Blodgett,	Pawtucket, R. I.,	3441 Chestnut St.
Malone, Daniel Franey,	Shenandoah,	3445 Woodland Ave.
MacKenzie, Will Alexander,	Chester, Ill.,	3417 Hamilton St.
Martin, William H,	Sunbury,	3342 Walnut St.
Mays, Edmund Anstie,	Philadelphia,	1829 Spruce St.
McAboy, Charles, Bradford,	Butler,	3344 Walnut St.
McCaffrey, Watson,	Philadelphia,	118 S. 41st St.
McChrystal, Alexander	Salt Lake City,	Dorm. 355, G.
Hancock,	Utah,	
McCloskey, John Francis,	Philadelphia,	Chestnut Hill.
McCombs, Robert Shelmerdine,	do.	648 N. 11th St.
McConaghy, Albert,	Swarthmore.	
McConlogue, Harry Patrick,	Philadelphia,	2331 Germantown Av.
McCracken, Josiah Calvin,	Sterling, Kan.	Dorm. 221, E.
McGill, Frank J	Philadelphia,	2454 N. Broad St.
McGrath, John Francis,	Connellsville,	3911 Woodland Ave.
A. M. (St. Vincent),		
McManus, Nathaniel George,	Scranton,	3403 Walnut St.
Miller, Albert Griffith, A.B.	Philadelphia,	2150 N. 21st St.
(C. H. S.),		
Miller, David Isaac,	Harrisburg,	3430 Sansom St.
Montgomery, Charles	West Chester,	Dorm. 451, O.
Mortimer, A. B. (Pennsylvania),		
Mooney, William Francis,	West Brookfield, Mass.,	2235 S. 12th St.
Moses, Joseph Snyder,	Chester Springs,	404 N. 31st St.
Mowbray, James Edward,	Philadelphia,	1826 S. Broad St.
Nealon, William Ambrose,	Carbondale,	3643 Locust St.
Nisbett, Verner,	Van Wyck, S. C.,	3923 Baltimore Ave.
Norris, John Waugh, Ph. B.	Baltimore, Md.,	500 N. 20th St.
(Dickinson),		
O'Connell, John Aloysius,	Carbondale,	3643 Locust St.
O'Hara, Arthur Sylvester,	Shenandoah,	3445 Woodland Ave.
O'Malley, William Ambrose,	Philadelphia,	2217 S. Broad St.
Oman, Charles Malden,	Wilkesbarre,	3703 Woodland Ave.
Otterbein, Frederic,	Pottsville,	24 Preston St.
Patterson, Harry Bynon,	New Boston,	3345 Woodland Ave.
Paul, Samuel George,	Salt Lake City,	Dorm. 337, J.
	Utah,	
Pfahler, James Frederick,	Catawissa,	3729 Spruce St.
Phelan, Joseph Charles,	Lynn, Mass.,	3913 Woodland Ave.
Pollins, Abram Harvey,	Greensburg,	3338 Walnut St.
Poole, Frank Alonzo,	Long Branch, N.J.,	214 S. 37th St.

Name.	Residence.	City Address.
Portuondo, José, M	Kingston, W. I.,	3425 Walnut St.
Price, John Cooper,	Salem, N. J.,	3725 Spruce St.
Rayburn, Charles Clyde,	Roseville, Ill.,	3944 Pine St.
B. S. (University of Illinois, 1897),		
Ralite, Walter Eugene,	Milwaukee, Wis.,	Dorm. 335, C.
Reynolds, Arthur Archibald,	Scranton,	3261 Chancellor Pl.
Rhein, Robert Davis,	Philadelphia,	200 S. 43d St.
Rhode, Homer Jonas,	Kutztown,	3814 Spruce St.
Rice, Archibald LeRoy,	Meadville,	3336 Chestnut St.
Rich, Edward Yarnall,	Dyerstown,	3226 Woodland Ave.
Richmond, William Eugene,	Buffalo, N. Y.,	Dorm. 226, F.
Jr.		
Robinson, Benjamin West- ley, Jr.,	Philadelphia,	347 Christian St.
Rogers, Benjamin Woolsey,	New York, N. Y.,	1636 Walnut St.
Rorke, John Henry,	Reading,	Dorm. 201, A.
Ruffell, Charles Einwechter,	Philadelphia,	1129 Marlboro St.
Russi, Oscar James,	Lambertville, N. J.,	15 N. 34th St.
Russell, Edward Wright,	Fleming,	Dorm. 447, M.
Sallade, Jacob Lloyd,	Williamsport,	3201 Powelton Ave.
Scarlett, Rufus Bell,	Erie,	Dorm. 413, C.
Schuman, Edward Armin,	Tacony,	7000 Tulip St.
A. B. (C. H. S.),		
Schwerin, Justin Gordon,	Philadelphia,	1521 N. 7th St.
Scott, John Wallace,	do.	Wayne and School Lane, Gtn.
Seward, Fred Henry,	Chester, N. Y.,	3717 Spruce St.
Sherman, William O'Neill,	Lancaster,	3328 Walnut St.
Siggins, John Charles,	Philadelphia,	726 N. 8th St.
Singer, John Johnston,	Connellsville,	3615 Locust St.
Sherrill, Alvan Woodward,	Oberlin, O.,	126 S. 34th St.
B. S. (Oberlin, 1897),		
Skelton, John William,	Philadelphia,	2514 Richmond St.
Smith, Joseph Chandler,	Laurel, Del.,	436 S. 40th St.
Smith, Lewis Watson, A. B.	Pittsburg,	3322 Woodland Ave.
(Penna. Coll, 1893),		
Smith Ralph Henry,	Glenn Springs, S. C.	3923 Baltimore Ave.
Stevens, Guy Ernest, B. S.	Scranton,	1243 N. 11th St.
(Yale, 1895),		
Stricker, William Bruce,	Catawissa,	3729 Spruce St.
Taylor, Elwin Carlton,	Hawleytown, N. Y.	3611 Locust St.
Thackara, William McLellan,	Philadelphia,	West Walnut Lane, Gtn.
Thomas, Edwin Wilber,	Ogdensburg, N. Y.,	3261 Chancellor Place.
Thomas, George Palmer,	Rochester, N. Y.,	3254 Chancellor Place.
Thomson, George Graham,	Philadelphia,	1426 Walnut St.
Tierney, Michael Frank,	Shenandoah,	3232 Lancaster Ave.

Name.	Residence.	City Address.
Tindall, Morris Hancock,	Philadelphia,	1417 N. 16th St.
Tressler, Charlie Webster,	Conyngham,	1600 Arch St.
Varian, Miles Guthrie,	Salt Lake City,	Dorm. 337, J.
	Utah,	
Voigt, George Emil,	Honesdale,	3336 Chestnut St.
Wagaman, Samuel Mitchell,	Hagerstown, Md.,	3703 Woodland Ave.
A. B., S. B. (St. Johns),		
Wallace, Wilbur Smiley,	East Brady,	3344 Walnut St.
A. B. (Grove City, 1897),		
Walp, George Bush,	Philadelphia,	1529 Columbia Ave.
Wanner, Charles Albright,	Fleetwood,	4413 Chestnut St.
Warrick, Frank Keene	Glassboro, N. J.,	Dorm. 440, K.
Travers,		
Warwick, Charles F., Jr.,	Philadelphia,	1925 Spring Garden St.
Waters, Charles Huff,	Trenton, N. J.,	[5 Pennington Ave.]
Wertheimer, Herbert Gatz,	Allegheny,	Dorm. 356, H.
West, Charles William,	Asheville, N. C.,	1207 Walnut St.
Whitmire, Fred Austin,	San José, Cal.,	3801 Ludlow St.
Wilcox, Homer Bowen,	Kingston,	1917 Green St.
Williams, Richard Perry,	East Boston, Mass.,	3344 Walnut St.
Wintersteen, Jay Boone,	Port Carbon,	3214 Chestnut St.
Wood, Harold Bacon,	Philadelphia,	635 Walnut St.
Woolbert, Roy,	Atlantic City, N. J.,	1108 N. 42d St.
Young, James Harrington,	Dunmore,	3715 Spruce St.
Young, Thomas Baker,	Wilmington, Del.,	[1111 Jefferson St.]
Ziegler, John George,	Reading,	Dorm. 201, A.
Zook, Joseph Allen,	Belleville,	Dorm. 126, F.

SPECIAL STUDENTS.

Greaves, Harrison Adams,	Philadelphia,	5745 Market St.
A. B. (U. S. Grant University, 1892); B. D. (Drew 1895); A. M. (U. S. Grant University, 1896).		
Engeman, John I	Brooklyn, N. Y.,	Dorm. 378, K.

SUMMARY.

Students of the Fourth-year Class,	195
Students of the Third-year Class,	253
Students of the Second-year Class,	227
Students of the First-year Class,	206
Special Students,	2
Total,	883

DEPARTMENT OF MEDICINE.

ORGANIZATION OF THE MEDICAL SCHOOL.

This venerable institution, the oldest Medical School in the United States, was founded in 1765 by Dr. JOHN MORGAN, who filled in it the first medical professorship created in America. In his opening "Discourse upon the Institution of Medical Schools in America," delivered in the College of Philadelphia, May 30, 1765, Dr. MORGAN uttered these prophetic words: "Perhaps this medical institution, the first of its kind in America, though small in its beginning, may receive a constant increase of strength, and annually exert new vigor. It may collect a number of young persons, of more than ordinary abilities, and so improve their knowledge as to spread its reputation to distant parts. By sending these abroad duly qualified, or by exciting an emulation amongst men of parts and literature, it may give birth to other useful institutions of a similar nature, or occasional rise, by its example, to numerous societies of different kinds, calculated to spread the light of knowledge through the whole American continent, wherever inhabited." Through Dr. MORGAN, the pupil of HUNTER in London and of CULLEN in Edinburgh, the graduates of this school take a just pride in regarding it as the lineal descendant of the best medical schools of Great Britain in the last century. To Dr. MORGAN was soon joined another pupil of CULLEN, Dr. WILLIAM SHIPPEN, as Professor of Anatomy and Surgery, thus forming another tie of relationship to the celebrated University of Edinburgh, whose methods of instruction were substantially adopted here. In the next year Dr. ADAM KUHN was added as Professor of Botany and Materia Medica; and in June, 1768, a "Commencement was held," at which medical honors were bestowed, the first in point of time in America. In 1769, Dr. BENJAMIN RUSH was elected Professor of Chemistry, and Dr. THOMAS BOND, Professor of Clinical Medicine.

To the faculty thus composed of MORGAN, SHIPPEN, KUHN, RUSH and BOND, have succeeded, at various times, professors whose reputation has been national, such as BARTON, WISTAR, CHAPMAN, PHYSICK, DEWEES, HORNER, HARE, GIBSON, JACKSON,

GEORGE B. WOOD, HODGE, JAMES B. ROGERS, CARSON, the elder PEPPER, FRANCIS GURNEY SMITH, NEILL, HENRY H. SMITH, LEIDY, D. HAYES AGNEW, and GOODELL.

The number of graduates of the Department of Medicine is 11,627.

ADMISSION.

A. Any candidate who may have received a degree in Arts or Science from a college recognized by this University will be admitted without examination. Students who have satisfactorily pursued the two-year course in Biology of this University will be exempt from the entrance examination; and UNTIL 1899 any candidate who has passed the entrance examination of a recognized college, or is a graduate of a recognized normal or high school, or academy of equal rank, may enter without examination.

Examinations for admission in 1898 will be held in Medical Hall, Monday, June 13, at 10 A. M., and Monday, September 26, at 10 A. M.*

Candidates for admission to the first-year class in 1898 will be required to register in Medical Hall between 9 and 10 A. M., either on Monday, June 13, or on Monday, September 26, and undergo the examinations beginning at 10 A. M. on the same day.*

1898.

B. Candidates for admission to the first-year class in 1898 who do not possess the qualifications specified in paragraph **A** will be required to pass examinations in the following studies:

ENGLISH.—(A) Grammar.

(B) Reading and Composition: Shakespeare's *Merchant of Venice*, Milton's *Comus* and *Lycidas*, Longfellow's *Evangeline*, and Macaulay's *Essays on Milton and Addison*.

HISTORY.—United States. (As in Eggleston's *History of the United States*.)

GEOGRAPHY.—Of the World.

MATHEMATICS.—(A) Arithmetic, including use of logarithms.

(B) Algebra through quadratic equations.

(C) Plane Geometry.

PHYSICS.—As in Carhart & Chute's, or Gage's, *Elements of Physics*.

LATIN.—First four books of Cæsar's *Galic War*; or

* Examinations for admission will also be held during the last week in June in Rochester, N. Y., Boston, Mass., Atlanta, Ga., Mobile, Ala., Duluth, Minn., Detroit, Mich., St. Louis, Mo., St. Paul, Minn., San Francisco, Cal., Galveston, Tex., Auburn, N. Y., Danville, Va., Knoxville, Tenn., Charlottetown, Prince Edward Island, Fredericton, New Brunswick, Kansas City, Mo. The names of the examiners will be found on page 19.

FRENCH.—Three hundred pages of contemporary prose; or

GERMAN.—Two hundred pages of contemporary prose.

In place of the language, Solid Geometry may be offered.

1899.

C. Candidates for admission to the first-year class in 1899 will be required to pass examinations in the following subjects (which are the subjects at present required for entrance to the Freshman Class in the College of this University).

ENGLISH.—(A) Grammar.

- (B) (1) Shakespeare's *Merchant of Venice*. (2) *Twelfth Night*. (3) Milton's *L'Allegro, Il Penseroso*. (4) *Comus* and *Lycidas*. (5) Longfellow's *Evangeline*. (6) The Sir Roger de Coverley Papers in the *Spectator*. (7) Macaulay's *Essays on Milton and Addison*. (8) Webster's first *Bunker Hill Oration*. (9) Irving's *Sketch Book*. (10) Scott's *The Abbot*.

For numbers 2, 4 and 5 of the above may be substituted three of the following:

Darwin, *Origin of Species*.

Huxley, *Physiography; an Introduction to the Study of Nature*.

Tyndall, *Heat as a Mode of Motion*.

George Eliot, *Middlemarch*.

HISTORY.—(A) History of the United States. (As in Eggleston's *History of the United States*.)

(B) Greek and Roman.

MATHEMATICS.—(A) Arithmetic.

(B) Algebra (including factoring, fractions, simple equations and simultaneous equations of the first degree).

(C) Algebra (to the end of quadratic equations, including ratio, proportion, arithmetical and geometrical progression, surds and imaginaries).

(D) Plane Geometry.

Additional examinations required:

Either I:—

GREEK.—(A) Greek Grammar.

(B) Greek Prose Composition.

(C) Xenophon (first four books of the *Anabasis*).

(D) Homer (first three books of the *Iliad*, with the prosody).

LATIN.—(A) Latin Grammar.

(B) Latin Prose Composition.

(C) Cæsar (first four books of the *Gallic War*).

(D) Vergil (first six books of the *Æneid*, with the prosody).

(E) Cicero (six orations, including the four against Catiline).

Or II:—

LATIN.—[A, B, C and D' (first *three* books of *Æneid*, with prosody).]

FRENCH.—(A) A thorough knowledge of elementary grammar.

(B) 300 pages of contemporary prose.

GERMAN.—(A) Collar-Eysenbach's *German Lessons*.

(B) 300 pages of contemporary prose.

Two of these languages, and Solid Geometry or Physics.

OR, *One* of these languages, and Solid Geometry and Physics.

In addition to the requirements for entrance in 1899, it is earnestly recommended that young men, before entering upon the study of medicine at this University, should have previously taken the degree either of A. B. or B. S. at some college or university where the standard is equivalent to that of the University of Pennsylvania. Should this be impracticable, two years' time should be devoted to the study of the following branches: chemistry or biology, with laboratory work in each amounting to six hours a week for eight months in each year; mammalian and human anatomy; histology and physiology, including the practical use of the microscope and culture methods in bacteriology. Freehand drawing is also an important preliminary study. Attention is called to the two-year course in Biology preparatory to Medicine given in the College of this University, as indicating the character and amount of studies required.

Candidates for admission to the first-year class who, before November 1, present evidence in writing of having had a course in chemistry, and of having performed laboratory work equivalent to that required during the first year in this school, will be permitted, on examination, to omit the chemistry of the first year and to pursue the chemistry and laboratory work of the second year, during the first year of their Medical course.

College graduates in Arts or Science who, during their college course, have devoted to the study of the branches named below the number of hours stated, are admitted to the second year of the

Medical course without an entrance examination.* These studies may have been pursued during any period of a college course leading to a degree. Students entering under these conditions are required during their first session in the Department of Medicine to take instruction in *Materia Medica* and *Pharmacy*, and to pass examinations in these branches by the end of the session. (At the end of the second year of the Medical course they will be examined in the entire subjects of *Anatomy* and *Physiology*.)

General Biology.....	96 hours.	Histology	72 hours.
Mammalian Anatomy..	96 "	Human Anatomy....	144 "
Botany	96 "	Physiology	72 "
Chemistry	216 "	Zoölogy	96 "
Physics	72 "	Embryology	48 "

Students who have attended one course in a recognized medical school (not Homœopathic or Eclectic) are admitted to the second year of the University course, upon passing a satisfactory examination in *General Chemistry*, *Materia Medica* and *Pharmacy*, *Elementary Anatomy with especial reference to Histology*, *Osteology* and *Myology*, *Physiology*, *excepting Heat Mechanism and the Nervous System*, and in the elements of *General Pathology*. Students who have attended two courses in a recognized regular medical school are admitted to the third-year class upon passing a satisfactory examination in *General and Medical Chemistry*, *Materia Medica* and *Pharmacy*, the elements of *General Pathology*, and the entire subjects of *Anatomy* and *Physiology*. Students who have attended three courses in a recognized regular medical school are admitted to the fourth-year class upon passing a satisfactory examination in *General and Medical Chemistry*, *Materia Medica* and *Pharmacy*, the elements of *General Pathology*, the entire subjects of *Anatomy* and *Physiology*, *Applied Anatomy*, *General and Special Pathological Anatomy*, *Therapeutics*, *Surgery*, and *Obstetrics*. Graduates of recognized regular medical schools, in which four years attendance upon instruction is required to obtain the degree in Medicine, are admitted to the fourth-year class with the understanding that they pass examinations in *Obstetrics*, *Therapeutics* and in *Pathology*, either at the beginning or at the end of the fourth year, in addition to the regular examinations of that year. Examinations in these subjects which may have been passed at other colleges or universities will not be accepted in lieu of the foregoing requirements. Candidates for admission to advanced standing who

* Blanks covering the requirements may be obtained of the Dean.

have not received a collegiate degree, or passed the matriculate examination of a recognized college, or who have not been graduated from a recognized normal or high school, or academy, will be required to pass the examination required of candidates for admission to the first-year class, in addition to the examinations in the subjects named above.

Examinations for admission to advanced standing for the session 1898-99 will be held in Medical Hall on Monday, September 26, at 10 A. M.*

COURSE OF STUDY.

The course of instruction extends over four years, with one session beginning the first of October (or the second, if the first fall on Sunday) and ending on the second Wednesday in June each year.

The FIRST YEAR is largely occupied with work in the various laboratories of Chemistry, Physiology, Pharmacy, Osteology and Histology, and in Dissection. The first-year student may also attend clinical lectures in General Medicine and General Surgery. In the SECOND YEAR, in addition to didactic and clinical teaching, practical instruction is given in Medical Chemistry, Physiology, Pathological Histology, Practical Bacteriology and Physical Diagnosis. Dissection is continued. Throughout the SECOND, THIRD and FOURTH years, the student is required to attend the general medical and surgical clinics at the University and Philadelphia Hospitals; and during the THIRD and FOURTH years the clinics in special departments at the former. Special bedside instruction in Clinical Medicine, including Physical Diagnosis, and in Clinical Surgery, is given in the third year. During the FOURTH year, in addition to special bedside instruction in Clinical Medicine, in Clinical Surgery, and in Gynæcology, practical instruction is given in Operative Surgery and Operative Obstetrics. For the foregoing purpose, the THIRD- and FOURTH-year classes are divided into sections, each of which receives direct personal instruction.

At the beginning of the fourth year, each member of the fourth-year class will be required to select from the following elective branches, one major or two minor branches, and pursue the study

* Students from other colleges admitted to the second-year class, who have not had instruction in Practical Normal Histology, will be required to make up such deficiency by taking a special course. Students admitted to the third-year class will be required to make up deficiencies in Practical Normal Histology, and in Practical Pathological Histology.

of the branch or branches as special studies. Major Electives: Nervous Diseases and Electro-Therapeutics, Skin Diseases, Advanced Hygiene (including Bacteriology), Laryngology and Rhinology, and Pharmacodynamics. Minor Electives: Orthopædic Surgery, Ophthalmology (including Ophthalmoscopy), Otology, Genito-Urinary Surgery, Advanced Anatomy, Advanced Physiology, Advanced Pathology, Advanced Medical Chemistry (including Toxicology), Pædiatrics, Experimental Psychology, Medical Jurisprudence. At the end of the fourth year the student will be examined in the special branch or branches selected in addition to the regular examinations of that year.

The course of instruction is so arranged as to permit the constant introduction of new material, while retaining the repetition of essential subjects aimed at by the older method. The laboratory instruction is so co-ordinated with the oral teaching as to illustrate the subjects of the lectures.

Advanced students are encouraged to make original researches in the laboratories of Pharmacy, Chemistry, Physiology, Pathology and Experimental Therapeutics.

Students of the Department of Medicine may attend, without additional charge, the lectures and recitations in any other department of the University. This privilege can be obtained only by the student presenting letters from the Dean of the Medical Faculty to the Dean of any other faculty, endorsing his application.

OUTLINE OF THE COURSE.

FIRST YEAR.

Anatomy.—Four lectures per week, eight hours per week dissection, including Osteology, during a period of eight weeks.*

Histology.—Two hours per week laboratory instruction, with occasional demonstrations.

Materia Medica and Pharmacy.—One lecture per week before February 1. Two lectures per week after February 1, and six hours per week laboratory, during a period of four months.

General Chemistry.—Two lectures per week, three hours per week laboratory.

Physiology.—Four lectures per week.

General Pathology.—One lecture per week.

* In the distribution of anatomical material at the beginning of the session, students of the second-year class are first supplied, and students of the first-year class may not receive material until about December 1.

History of Medicine, Medical Terminology, Ethics, etc.—One lecture per week before February 1.

Physical Diagnosis.—One lecture per week.

General Symptomatology and Diagnosis.—One lecture per week.

Bandaging.—One lecture per week, four hours per week practice during a period of four weeks.

Practical Physiology.—Two hours per week laboratory instruction.

General Clinics.—Medical and Surgical.

Final examinations at the end of the first year: General Chemistry, Elementary Anatomy (with special reference to Histology, Osteology and Myology), Physiology (except the Heat Mechanism and the Nervous System), Materia Medica and Pharmacy, and Elements of General Pathology.

SECOND YEAR.

Anatomy.—Two lectures per week, ten hours per week dissection during a period of eight weeks.

Medical Chemistry.—One lecture per week, three hours per week laboratory.

Physiology.—Two lectures per week.

General Pathology and Morbid Anatomy.—Two lectures per week, ten hours per week laboratory.

Physical Diagnosis.—Three hours per week demonstrations during a period of eight weeks.

Therapeutics.—Two lectures per week.

Surgery.—Three lectures per week.

Obstetrics.—Two lectures per week.

Bacteriology.—One lecture per week.

Practical Bacteriology.—Ten hours per week laboratory during a period of two weeks.

Practical Physiology.—Two hours per week laboratory instruction.

General Clinics, Medical and Surgical, including Philadelphia and Pennsylvania Hospital clinics.

Special Clinics.—(Nervous Diseases, Gynæcology, Diseases of Skin, Eye, Ear, alternating with practical work in Physical Diagnosis and in Pathological Histology.)

Final examinations at the end of the second year: Medical Chemistry, Anatomy (including Embryology), Physiology, and Physical Diagnosis.

THIRD YEAR.

Applied Anatomy.—Two lectures per week.

General Pathology and Morbid Anatomy.—Two lectures per week.

Demonstrations in Morbid Anatomy including Autopsies.—Two hours per week.

Therapeutics.—Two lectures per week.

Theory and Practice of Medicine.—Three lectures per week.

Clinical Medicine.—Two clinical lectures per week, one hour per week bedside instruction, including Physical Diagnosis.*

Surgery.—Three lectures per week.

Clinical Surgery.—One clinical lecture per week, one hour per week bedside instruction.†

Minor Surgery and Fracture Dressing.—One lecture per week before February 1. One hour per week practice before February 1.

Obstetrics.†—Three lectures per week.

Gynæcology.—One didactic lecture per week.

Skin Diseases.—One didactic lecture per week, one clinical lecture per week before February 1.

Otology.—One didactic lecture per week before February 1. One hour per week clinical lecture.

Laryngology.—One didactic lecture per week after February 1.

Genito-Urinary Diseases.—One clinical lecture per week after February 1.

General Clinics, Medical and Surgical, including Philadelphia and Pennsylvania Hospital clinics.

Special Clinics (Nervous Diseases, Pædiatrics, Gynæcology, Diseases of the Skin, Eye, Ear at both University and Philadelphia Hospitals).

Final examinations at the end of the third year: Applied Anatomy, General and Special Pathological Anatomy, Therapeutics, Surgery, and Obstetrics.

* For these courses the class is divided into sections, so that each student shall receive direct personal instruction.

† Students also receive individual practical instruction in pelymetry and abdominal palpation, in addition to the lectures on Obstetrics.

FOURTH YEAR.

Theory and Practice of Medicine.—Three lectures per week.

Clinical Conference in Medicine.—One hour per week.

Clinical Medicine—Two clinical lectures per week, one hour per week bedside instruction.

Laryngology and Rhinology.—One didactic lecture per week after February 1.

Clinical Surgery.—Two clinical lectures per week, one hour per week bedside instruction.

Operative Surgery.—One lecture per week after February 1, three hours practical instruction after February 1.

Operative Obstetrics.—One hour per week practical instruction.

Nervous Diseases and Electro-Therapeutics.—One clinical lecture per week.

Hygiene.—One lecture per week.

Gynæcology.—One didactic lecture per week, one clinical lecture per week, one hour per week practical instruction.

Pædiatrics.—One clinical lecture per week before February 1.

Skin Diseases.—One didactic lecture per week, one clinical lecture per week before February 1.

Genito-Urinary Diseases.—One hour per week after February 1.

Otology.—One didactic lecture per week before February 1, one clinical lecture per week throughout the year.

Ophthalmology.—One didactic lecture per week, one hour per week clinical lecture.

Autopsies.—One hour per week practical instruction.

Clinical and Operative Obstetrics.—One hour per week practical instruction.

Orthopædic Surgery.—One clinical and didactic lecture per week.

General Clinics, Medical and Surgical, including Philadelphia and Pennsylvania Hospital clinics.

CLINICAL ELECTIVES.

Nervous Diseases and Electro-Therapeutics.—Two hours per week practical instruction for at least one-half the session.

Skin Diseases.—Two hours per week practical instruction, for at least one-half the session.

Laryngology and Rhinology.—Two hours per week practical instruction for at least one-half the session.

Otology.—One hour per week practical instruction, for at least one-half the session.

Ophthalmology, including Ophthalmoscopy.—One hour per week practical instruction for at least one-half the session.

Orthopædic Surgery.—One hour per week practical instruction for at least one-half the session.

Genito-Urinary Surgery.—One hour per week practical instruction for at least one-half the session.

Pædiatrics.—One hour per week practical instruction for at least one-half the session.

Final examination in Skin Diseases will be held about February 1. Final examinations at the end of the fourth year: Theory and Practice of Medicine, Clinical Medicine, Operative Surgery, Clinical Surgery, Operative Obstetrics, Gynæcology, Hygiene, Ophthalmology, and Practical Gynæcology. The examinations include questions on Diseases of the Ear, Children's Diseases, and Neurology, from lists furnished by the Clinical Professors of those branches. In addition, the student will be examined in one of the following major electives, or two of the minor electives, which he must have elected as a special study or studies at the beginning of the fourth year. Major Electives: Nervous Diseases and Electro-Therapeutics, Skin Diseases, Advanced Hygiene (including Bacteriology), Laryngology and Rhinology, and Pharmacodynamics. Minor Electives: Orthopædic Surgery, Ophthalmology (including Ophthalmoscopy), Otology, Genito-Urinary Surgery, Advanced Anatomy, Advanced Physiology, Advanced Pathology, Advanced Medical Chemistry (including Toxicology), Pædiatrics, Experimental Psychology, Medical Jurisprudence.

TEXT-BOOKS.

FIRST YEAR.

Text-Books.

Collateral Reading.

Chemistry: Richter's Inorganic Chemistry; Medicus' Qualitative Analysis. (Fourth edition.)

Wurtz's Elements of Modern Chemistry.

Anatomy: Leidy; Holmes' Outlines of Anatomy; Piersol's Normal Histology.

Gray; Morris; Stöhr's Histology.

Text-Books.

Collateral Reading.

Physiology: American Text-book
of Physiology.

Pathology:

Abbott's Principles of Bacteriology; Leidy's Anatomy; Foster's Physiology.

Physical Diagnosis: Tyson.

Materia Medica: H. C Wood; Wood and Bache's Dispensatory.
Mann on Prescription Writing.

SECOND AND THIRD YEARS.

Medical Chemistry: Marshall's Second-year Notes; Tyson's Practical Examination of Urine. Wormley's Micro-chemistry of Poisons, 2d edition; Remsen's Organic Chemistry.

Anatomy: Leidy; Holmes' Outlines of Anatomy. Gray; Morris; Quain; Foster and Balfour's Elements of Embryology.

Physiology: American Text-book of Physiology.

General Pathology and Morbid Anatomy: Ziegler; Woodhead's Practical Pathology; Abbott's Principles of Bacteriology. Cohnheim's Lectures on General Pathology; Pepper's System of Practical Medicine by American Authors; Sternberg's Manual of Bacteriology; Halliburton's Chemical Physiology and Pathology.

Therapeutics: H. C Wood.

Surgery: Ashhurst's Principles and Practice of Surgery; Agnew's Surgery. Wood and Bache's Dispensatory. Ashhurst's International Encyclopædia of Surgery; Wharton's Minor Surgery and Bandaging; Davis on Bandaging; Young's Orthopædic Surgery.

Clinical Surgery: An American Text-book of Surgery; Agnew's Surgery. Treves' Operative Surgery; Martin's Essentials of Surgery and Bandaging.

Obstetrics: The American Text-book of Obstetrics. Hirst's System of Obstetrics Lusk's Midwifery; Barnes' Obstetrics.

Physical Diagnosis: Tyson.

Skin Diseases: Duhring; Crocker; Hyde.

THIRD AND FOURTH YEARS.

Text-Books.

Collateral Reading.

- Practice of Medicine:* A Text-book of Medicine, edited by Pepper; Osler; Strümpel. Musser's Medical Diagnosis.
- Clinical Medicine:* Tyson's Text-book of Medicine.
- Surgery:* Ashhurst's Principles and Practice of Surgery; Agnew's Surgery.
- Clinical Surgery:* An American Text-book of Surgery; Agnew's Surgery.
- Obstetrics:* The American Text-Book of Obstetrics.
- Gynæcology:* Penrose's Text-book of Diseases of Women.
- Diseases of Children:* Ashby and Wright; Holt; Rotch.
- Medical Jurisprudence:*
- Skin Diseases:* Duhring; Crocker; Hyde.
- Ophthalmology:* Norris and Oliver's Text-book of Diseases of the Eye.
- Hygiene:* Parke's Practical Hygiene (last edition by Natter).
- Pepper's System of Practical Medicine; Stillé & Maisch's Dispensatory; Tyson on Bright's Disease and Diabetes; Seiler's Diseases of Throat and Nose.
- Ashhurst's International Encyclopædia of Surgery; Wharton's Minor Surgery and Bandaging; Davis on Bandaging; Young's Orthopædic Surgery.
- Treves' Operative Surgery; Martin's Essentials of Surgery and Bandaging.
- Hirst's System of Obstetrics; Lusk's Midwifery; Barnes' Obstetrics.
- Hart and Barbour's Manual of Gynæcology; An American Text-book of Gynæcology.
- J. Lewis Smith; American Text-book of the Diseases of Children; Cyclopædia of Diseases of Children.
- Taylor's Medical Jurisprudence.
- Billings' Ventilation and Heating; Abbott's Principles of Bacteriology.

ORDER OF INSTRUCTION, DAILY.—FIRST YEAR.—1897-8.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9 A. M.						
10 A. M.	Marshall. Gen. Chemistry.	Marshall. Gen. Chemistry.	Chemical Laboratory. Three hours.	Mitchell. Gen Symp., Diag.	Miller. Materia Medica	Phila. or Penna. Hosp. Med. and Surgical Clinics.
11 A. M.	Daland. Phys. Diagnosis.†	Harte. Osteol., Syndes'l.		Guiteras. Gen. Pathology.	History of Med., Med Terminol., Ethics, etc.	
12 M. to 2 P. M.	Class divided into sections for Pract. Work in Histology, Physiology, Dissecting, Bandaging (before Feb. 1st), Pharmacy (after Feb. 1st) See Spec. Roster.	Class divided into sections for Pract. Work in Histology, Physiology, Dissecting, Bandaging (before Feb. 1st), Pharmacy (after Feb. 1st). See Spec. Roster.	Class divided into sections for Pract. Work in Histology, Physiology, Dissecting, Bandaging (before Feb. 1st), Pharmacy (after Feb. 1st) Clinics. See Spec. Roster.	Class divided into sections for Pract. Work in Histology, Physiology, Dissecting, Bandaging (before Feb. 1st), Pharmacy (after Feb. 1st). See Spec. Roster.	Class divided into sections for Pract. Work in Histology, Physiology, Dissecting, Bandaging (before Feb. 1st), Pharmacy (after Feb. 1st). See Spec. Roster.	Class divided into sections for Pract. Work in Histology, Physiology, Dissecting, Bandaging (before Feb. 1st), Pharmacy (after Feb. 1st). Clinics. See Spec. Roster.
3½ P. M.	Piersol. Anatomy.	Piersol. Anatomy.	Wharton. Bandaging Lec., before Dec. 22. Harte. Osteol. & Syndes. after Jan. 1st.	Piersol. Anatomy.	Piersol. Anatomy.	
4½ P. M.	Reichert. Physiology.	Reichert. Physiology.	Miller Materia Medica, after Jan. 1st.	Reichert. Physiology.	Reichert. Physiology.	
5½ P. M.						

† University Hospital.

ORDER OF INSTRUCTION, DAILY.—SECOND YEAR.—1897-8.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9 A. M.						
10 A. M.		Guiteras. Pathology.	Phila. or Penna. Hosp. Med. and Surgical Clinics.	Marshall. Medical Chem.	Guiteras. Pathology.	Medica Chemistry Laboratory. Three hours.
11 A. M.	Guiteras. Bacteriology.	Ashhurst. Surgery.		Ashhurst. Surgery.	Ashhurst. Surgery.	
12 M. to 2 P. M.	Class divided into sections for Pract. Work in Pathology, Physiology, Dissecting, Bacteriology, Physical Diag. Clinic. See Spec. Roster.	Class divided into sections for Pract. Work in Pathology, Physiology, Dissecting, Bacteriology, Physical Diag. See Spec. Roster.	Class divided into sections for Pract. Work in Pathology, Physiology, Dissecting, Bacteriology, Physical Diag. Gynecolog. and Gen. Surgical† Clinics. See Spec. Roster.	Class divided into sections for Pract. Work in Pathology, Physiology, Dissecting, Bacteriology, Physical Diag. Clinic. See Spec. Roster.	Class divided into sections for Pract. Work in Pathology, Physiology, Dissecting, Bacteriology, Physical Diag. Clinic. See Spec. Roster.	Class divided into sections for Pract. Work in Pathology, Physiology, Dissecting, Bacteriology, Physical Diag. Gen. Med. and Surgical† Clinics. See Spec. Roster.
3½ P. M.	Piersol. Anatomy.	Hirst. Obstetrics.		Hirst. Obstetrics.	Piersol. Anatomy.	
4½ P. M.	Reichert. Physiology.	Musser. Phys. Diagnosis.		Wood. Therapeutics.	Reichert. Physiology.	
5½ P. M.					Wood. Therapeutics.	

† University Hospital.

ORDER OF INSTRUCTION, DAILY.—THIRD YEAR.—1897-8.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9 A. M.			Phila. Hospital. Gynæcol. Clinic.		Dem. in Morb. Anat., Section.	Phila. Hospital. Gynæcol. Clinic.
10 A. M.	Dem. in Morb. Anat., Section.	Guiteras. Pathology.	Phila. or Penna. Hosp. Medical and Surgical Clinics.	Dem. in Morb. Anat., Section.	Guiteras. Pathology.	Phila. or Penna. Hosp., Medical and Surgical Clinics.
11 A. M.		Ashhurst. Surgery.		Ashhurst. Surgery.	Ashhurst. Surgery.	
12 M.	Deaver. Appl. Anatomy.		Wood. Clin. Nerv. Dis.†	Tyson. Medical Clinic †	Deaver. Appl. Anatomy.	Pepper. Med. Clin.†
1 P. M.	Randall. Clin. Dis. of the Ear.† Ward Classes. Med. and Surg.†	Ward Classes, Med. and Surg.†	White. Surgical Clinic.†	Norris. Clin. D. s. of the Eye.† Ward Classes, Surg.†	Duhring. Clin. Dis. of the Skin,† before Feb. 1. Ward Classes. Med.†	Ashhurst. Surgical Clinic.
3½ P. M.	Martin. Genito-Urin. Dis. after Feb. 1.† Wharton. Minor Surgery. Lecture before Feb. 1.	Hirst. Obstetrics.	Penrose. Didactic Gynæ- cology.	Hirst. Obstetrics.	Randall. Didac. Otolgoy before Feb. 1. Didac. Laryn. after Feb. 1.	
4½ P. M.	Wharton. Frac. Dressing. Two secs., Prac., before Feb. 1.		Duhring. Didac. Skin Dis. before Feb. 1.	Wood. Therapeutics.	Wharton. Frac. Dress., Two sec. Prac. before Feb. 1.	
5½ P. M.	Pepper. Practice.	Pepper. Practice.	Hirst. Obstetrics.	Pepper. Practice.	Wood. Therapeutics.	

For Ward Class instruction and Obstetrical Demonstrations the Third-year Class is divided into sections
SEE SPECIAL ROSTER.

† University Hospital.

ORDER OF INSTRUCTION, DAILY.—FOURTH YEAR.—1897-8.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
10 A. M.	Pract. Gynæcol.†		Phila. Hospital, Gynæcolog. Clinic.	Mills Ment. and Nerv. Dis. before Feb. 1. Med. Juris. after Feb. 1.	Abbott. Hygiene.	Phila. Hospital Gynæcol. Clin.
11 A. M.	Autopsies before Feb. 1. Ashhurst. Op. Sur., Lec. after Feb. 1.	Prep. of Food for the Sick, before Feb. 1.	Phila. or Penna. Hos., Med. and Surg. Clinics.	Griffith. Dis. of Children† before Feb. 1.	Pract. Gynæcol.†	Phila. or Penna. Hospital, Med. Surg. and Gynæ- cological Clinics.
12 M.	Pract. Gynæcol.†	Penrose. Gynæcol. Clin., before Feb. 1.	Wood. Clinic, Nerv. Diseases.†	Tyson. Med. Clinic.†	Hirst. Operat. and Clin. Obstetrics.†	Pepper. Med. Clin.†
1 P. M.	Randall. Ear Clin.† Ward Classes in Surg.†	Ward Classes in Surg.†	White. Surgical Clinic.†	Norris. Eye Clin.† Ward Classes in Surg.†	Penrose. Gynæcol. Clin. after Feb. 1.† Duhring. Skin Clin. before Feb. 1.†	Ashhurst. Surg. Clinic.†
3½ P. M.	Martin. Genito-Urin. Dis., after Feb. 1.† Mills. Med. Juris. before Feb. 1.	Willard. Orthop. Surg. Clin. and Didac.†	Penrose. Didac. Gynæcol.† Ward Classes in Med. 3 P. M.	Ward Classes in Med. 3 P. M.	Randall. Didac. Otolgoy, before Feb. 1.† Didac. Lar., after Feb. 1.	Ward Classes in Med. 3 P. M.
4½ P. M.	Wharton. Oper. Surg., after Feb. 1. Sections. Clin. Conf. in Med. before Feb. 1.†	Norris. Didac. Ophthal- mol.†	Duhring. Didac. Skin Dis. before Feb. 1. Clin. Conf. in Med. after Feb. 1.†	R. C. Norris. Operative Obstetrics, Sections.	Wharton. Operative Surgery, after Feb. 1, Sections.	
5½ P. M.	Pepper. Practice.	Pepper. Practice.		Pepper. Practice.		

For Ward Class instruction and Demonstrations the Fourth-year Class is divided into sections. See
SPECIAL ROSTERS for Sections of Class. Ward Classes in Medicine in the Fourth year will be held at 3 P. M.
Instead of 3.30 P. M.

† University Hospital.

FOURTH-YEAR CLASS.

ROSTER *

OF BEDSIDE INSTRUCTION AND SPECIAL CLINICS FOR STUDENTS OF
THE FOURTH-YEAR CLASS. SESSION 1897-98.

For attendance upon the course in Clinical Medicine, the Fourth-Year Class is divided into *three sections*, A, B and C, and for attendance upon the courses in Clinical Surgery and in Practical Gynæcology, into *four sections*, A, B, C and D, which attend as follows:

First Period, from Monday, October 11, to November 27, inclusive.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Clinical Medicine	—	—	A	B	—	C
Clinical Surgery	C	D	—	A	—	—
Practical Gynæcology	{ B 10 a. m. A 12 m.		—	—	C	—

Second Period, from Monday, November 29, to January 22, inclusive.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Clinical Medicine	—	—	B	C	—	A
Clinical Surgery	B	C	—	D	—	—
Practical Gynæcology	{ A 10 a. m. D 12 m.		—	—	B	—

Third Period, from Monday, January 24, to March 12, inclusive.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Clinical Medicine	—	—	B	C	—	A
Clinical Surgery	A	B	—	C	—	—
Practical Gynæcology	{ C 10 a. m. B 12 m.		—	—	D	—

Fourth Period, from Monday, March 14, to April 30, inclusive.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Clinical Medicine	—	—	C	A	—	B
Clinical Surgery	D	A	—	B	—	—
Practical Gynæcology	{ A 10 a. m. C 12 m.		—	—	D	—

* Bedside instruction for the various classes begins as follows: Third-year Class in Medicine and Surgery, on the second Monday *after* October 1; Fourth-year Class, all bedside instruction, on the second Monday *after* October 1; Classes in Electives and Special Subjects, on the third Monday *after* October 1.

THIRD-YEAR CLASS.

ROSTER

OF BEDSIDE INSTRUCTION AND SPECIAL CLINICS FOR STUDENTS OF
THE THIRD YEAR. SESSION 1897-98.

For attendance upon these Courses, the Third-Year Class is divided into *four sections*, A, B, C and D, which attend as follows:

First Period, from Monday, October 11, to November 27, inclusive.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Medicine	B	D	—	—	A	—
Surgery	D	A	—	B	—	—

Second Period, from Monday, November 29, to January 22, inclusive.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Medicine	C	B	—	—	D	—
Surgery	A	C	—	B	—	—

Third Period, from Monday, January 24, to March 12, inclusive.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Medicine	D	A	—	—	C	—
Surgery	B	C	—	D	—	—

Fourth Period, from Monday, March 14, to April 30, inclusive.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Medicine	A	C	—	—	B	—
Surgery	C	D	—	A	—	—

SECOND-YEAR CLASS.

SPECIAL ROSTER OF PRACTICAL WORK.

Hours from 12 to 2 daily.

THE CLASS IS DIVIDED INTO THREE SECTIONS, DESIGNATED A, B, C.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	
Pathology . .	—	A	A	A	A	A	} First period of 28 working days. from Oct. 11 to Nov. 11 inclusive.
Physiology . .	A	B	C	—	—	—	
Dissection . .	B	—	B	B	B	B	
Pharmacology,	—	—	—	—	—	—	
Bacteriology .	C*	C*	—	C*	C*	C*	
Physical Diag.,	C**	C**	—	C**	—	—	
Clinics	—	—	—	—	C**	C**	

Pathology . .	—	A	A	A	A	A	} Second period of 28 working days. from Nov. 12 to Dec. 17 inclusive.
Physiology . .	A	B	C	—	—	—	
Dissection . .	C	C	—	C	C	C	
Bacteriology .	B**	—	B**	B**	B**	B**	
Physical Diag.,	B*	—	—	B*	B*	—	
Clinics	—	—	B*	—	—	B*	
Pathology . .	B	—	B	B	B	B	} Third period of 28 working days. from Dec. 18 to Jan. 28 inclusive.
Physiology . .	A	B	C	—	—	—	
Dissection . .	—	A	A	A	A	A	
Bacteriology .	C**	C**	—	C**	C**	C**	
Physical Diag.,	C*	—	—	C*	C*	—	
Clinics	—	—	—	—	—	C*	
Pathology . .	B	—	B	B	B	B	} Fourth period of 28 working days. from Jan. 29 to March 3 inclusive.
Physiology . .	A	B	C	—	—	—	
Dissection . .	C	C	—	C	C	C	
Bacteriology .	—	A**	A**	A**	A**	A**	
Physical Diag.,	—	A*	—	A*	A*	—	
Clinics	—	—	A*	—	—	A*	
Pathology . .	C	C	—	C	C	C	} Fifth period of 28 working days. from March 4 to April 5 inclusive.
Physiology . .	A	B	C	—	—	—	
Dissection . .	—	A	A	A	A	A	
Pharmacology,	—	—	—	—	—	—	
Bacteriology .	B*	—	B*	B*	B*	B*	
Physical Diag.,	B**	—	B**	B**	—	—	
Clinics	—	—	—	—	B**	B**	
Pathology . .	C	C	—	C	C	C	} Sixth period of 28 working days. from April 6 to May 10 inclusive.
Physiology . .	A	B	C	—	—	—	
Dissection . .	B	—	B	B	B	B	
Pharmacology,	—	—	—	—	—	—	
Bacteriology .	—	A*	A*	A*	A*	A*	
Physical Diag.,	—	A**	A**	A**	—	—	
Clinics	—	—	—	—	A**	A**	

* First half of the section.

** Second half of the section.

In Bacteriology each half of the main section is further sub-divided into two sub-sections. The first sub-section will attend in the Bacteriological Laboratory during the first half of the 28 day period, and the second sub-section will attend during the second half of the 28 day period.

For hours of Clinics see General Rosters of Third and Fourth years.

FIRST-YEAR CLASS.

SPECIAL ROSTER OF PRACTICAL WORK.

Hours from 12 to 2 daily.

THE CLASS IS DIVIDED INTO THREE SECTIONS, DESIGNATED A, B, C.

	Mon.	Tue	Wed.	Thur.	Fri.	Sat.	
Histology . . .	—	—	—	A	B	C	} First period of 28 working days, from Oct. 11 to Nov. 11 inclusive.
Physiology . .	—	—	—	B	C	A	
Dissection . .	A	A	A	—	A	—	
Bandaging . .	B	B	—	—	—	—	
Clinics	C	C	BC	C	—	B	
Histology . . .	—	—	—	A	B	C	} Second period of 28 working days, from Nov. 12 to Dec. 17 inclusive.
Physiology . .	—	—	—	B	C	A	
Dissection . .	B	B	B	—	—	B	
Bandaging . .	C	C	—	—	—	—	
Clinics	A	A	AC	C	A	—	
Histology . . .	—	—	—	A	B	C	} Third period of 28 working days, from Dec. 18 to Jan. 28 inclusive.
Physiology . .	—	—	—	B	C	A	
Dissection . .	C	C	C	C	—	—	
Bandaging . .	A	A	—	—	—	—	
Clinics	B	B	AB	—	A	B	

*Between these periods instruction in Bandaging ends and instruction
in Pharmacy begins,*

Histology . . .	—	—	—	A	B	C	} Fourth period of 28 working days, from Jan. 29 to March 3 inclusive.
Physiology . .	—	—	—	B	C	A	
Pharmacy . .	B	B	B	—	—	—	
Dissection . .	A	A	A	—	A	—	
Clinics	C	C	C	C	—	B	
Histology . . .	—	—	—	A	B	C	} Fifth period of 28 working days, from March 4 to April 5 inclusive.
Physiology . .	—	—	—	B	C	A	
Pharmacy . .	C	C	C	—	—	—	
Dissection . .	B	B	B	—	—	B	
Clinics	A	A	A	C	A	—	
Histology . . .	—	—	—	A	B	C	} Sixth period of 28 working days, from April 6 to May 10 inclusive.
Physiology . .	—	—	—	B	C	A	
Pharmacy . .	A	A	A	—	—	—	
Dissection . .	C	C	C	C	—	—	
Clinics	B	B	B	—	A	B	

GRADUATION.

At the end of the fourth year, a student who has satisfactorily passed all the required examinations receives the degree of Doctor of Medicine under the following conditions:

I. He must be 21 years of age, and of good moral character.

II. He must have passed satisfactory examinations in all of the required branches of the curriculum, must have attended the practical instruction in all departments, and his last year of instruction must have been at this school.

III. He must have attended at least one case of Obstetrics.

IV. After receiving notice of having successfully passed the final examination, he must enter his name on the Register of Candidates for the Degree.

V. He must be present at Commencement, unless excused by the Dean of the Faculty.

ARRANGEMENT OF SESSION.

The Academic Year consists of one session, beginning on October 1, and ending at Commencement on the second Wednesday in June.

The session of 1898-99 will begin on Saturday, October 1, 1898, and will end on Wednesday, June 14, 1899.

TUITION FEES AND EXPENSES.

All tuition fees are payable to JOHN MARSHALL, DEAN. The tuition fee of \$200 each year is *on condition that it is paid before November 1*. If paid on or after November 1, the fee will be \$205 for the year. If a division of payments is desired, \$105 are to be paid before November 1, and \$100 before February 1.

The Department of Medicine of the University of Pennsylvania is recognized by the Royal College of Physicians, London, and by the Royal College of Surgeons, England, to the extent that its graduates are exempt from the first examination, and admitted to the second and third examinations of the joint examining board, upon the following basis:

They must exhibit their diploma, together with evidence of having passed an approved preliminary examination in general education; and they must also present evidence of five years' professional study, and certificates to show that the curriculum required by the examining board has been substantially fulfilled.

Graduates of the Department of Medicine of the University of Pennsylvania are also admitted, on presentation of the diploma and certificates to verify the curriculum, together with evidence of a satisfactory preliminary examination or degree in Arts, to the final examination for the triple qualification of the Royal Colleges of Physicians and Surgeons of Edinburgh, and Faculty of Physicians and Surgeons of Glasgow.

At least twenty-five dollars must be paid on account of tuition before the student will be admitted to the Chemical Laboratory.

Under no circumstances are any changes made in the established fees. The only free scholarships granted are those under the regulations hereinafter referred to.

At the beginning of the first and second years, each student is required to make a deposit of \$5 with the Professor of Chemistry, to cover "breakage" in the chemical laboratories. Any balance remaining at the end of the session is returned.

Board may be obtained near the University for \$5 a week upwards.

First Year.

Matriculation Fee.....	\$5 00
For General Tuition Ticket, admitting to all the lectures, and including all the laboratory work and dissection assigned to this year.....	\$200 00
Dissecting material.....	\$1 per part.

Second Year.

For General Tuition Ticket, admitting to all the lectures, and including all the laboratory work and dissection assigned to this year.....	\$200 00
Dissecting material.....	\$1 per part.

Third Year.

For General Tuition Ticket, admitting to all the lectures and practical work assigned to this year.....	\$200 00
Fee for Practical Obstetrics.....	1 00

Fourth Year.

For General Tuition Ticket, admitting to all the lectures and the Practical courses of this year required for graduation (no graduation fee).....	\$200 00
Fee for Practical Obstetrics.....	1 00
Material for operations in Surgery.....	\$1 per part.

FEES FOR SPECIAL COURSES.

(Students taking special or partial courses, if not already matriculated, or if not graduates of the School, are required to pay the matriculation fee in addition to the fees named below.)

For any single course of Lectures, except Materia Medica...	\$20 00
For the course of lectures on Materia Medica.....	10 00
For Practical Course in the Chemical Laboratory.....	25 00
For the course in Practical Gynæcology of the fourth year...	25 00
For any one of the remaining Practical courses.....	15 00

Graduates of the School are admitted to the *lectures* free of charge; but they are required to pay the fees for any practical courses they may take.

SCHOLARSHIPS.

A competitive examination of candidates to fill three free scholarships is held annually. (In 1898, on Saturday, September 24, at 10 A. M., in Medical Hall.) Each candidate will be required:

First. To furnish satisfactory evidence in writing, from three reputable persons, that he is without means to defray the expenses of a medical education.

Second. To write a brief autobiography, of about 300 words in length, which will serve as a test of his qualifications in orthography and grammar.

Third. In addition to passing the examination for admission to the First-year Class, to undergo examinations in the following subjects:

(a) Latin (first book of the *Odes of Horace*).

(b) Greek (first four books of the *Iliad*).

(c) Physics.

(d) Solid Geometry.

Fourth. To pay an examination fee of \$5, which is not returned, but is accepted as the matriculation fee in case the candidate is successful.

The application of candidates who propose presenting themselves for examination, together with the certificates demanded by the first requirement of the competition, must be in the hands of the Dean *before September 15*. This requirement having been complied with, candidates will appear without further notice at the time stated for examination.

FACILITIES FOR INSTRUCTION.

The instruction in the Department of Medicine is conducted in the MEDICAL HALL, the LABORATORY BUILDING, the HOSPITAL OF THE UNIVERSITY, MATERNITY PAVILIONS, WISTAR INSTITUTE OF ANATOMY AND BIOLOGY, and the LABORATORY OF HYGIENE.

The Medical Hall contains the Laboratories of Histology, Osteosyn-desmology, Pathology, Pharmacy and Experimental Therapeutics.

The HISTOLOGICAL LABORATORY is under the supervision of the Professor of Anatomy and the Demonstrator of Histology. The Laboratory is furnished with excellent microscopes, and all apparatus necessary to enable the student to become practically familiar

with the most approved methods of microscopical technology, as well as with the normal histology of all the tissues and organs. Special facilities are afforded for original research and work in Practical Embryology: for this purpose the Laboratory is open throughout the year, except during July and August.

The OSTEO-SYNDESMOLOGICAL LABORATORY is under the supervision of the Professor of Anatomy and Demonstrator of Osteology. In this Laboratory, the First-year student is required to make himself familiar with the skeleton and the articulations as a part of his instruction in practical anatomy.

The PATHOLOGICAL LABORATORY, under the direction of the Professor of General Pathology and Morbid Anatomy and the Demonstrator, was opened in 1874. It is furnished with microscopes and all the appliances requisite for practical study and for original research. This Laboratory is supplied with a complete outfit for the investigation of bacteria in their relation to infectious diseases, and for the study of the lower fungi.

Each student of the Second year is provided with a separate table and microscope, with material and reagents, and receives personal instruction in Pathological Histology, in Mycology, and in the Microscopy of the Urine.

Each student of the Third year receives advanced practical instruction in Morbid Anatomy, and in the performing of autopsies. Weekly demonstrations of the gross appearance of specimens, embracing all known morbid products, mostly in fresh condition, together with the microscopic sections, are features of this course. The practical work is obligatory for students of the Second and the Third years. Special instruction and guidance in original research are given by the demonstrators to advanced students. The Laboratory is open throughout the year, except during July and August.

The PHARMACEUTICAL LABORATORY is in charge of the Professor of Materia Medica and Pharmacy and the Instructors in Pharmacy. It is furnished with all necessary apparatus. Here the student not only becomes familiar with the various pharmaceutical processes, but also acquires that knowledge of drugs which can be obtained only by actual handling.

The LABORATORY OF EXPERIMENTAL THERAPEUTICS, under the direction of the Professor of Materia Medica and Therapeutics, is furnished with all the apparatus and instruments necessary for the study of the physiological actions of medicines.

The DEPARTMENT OF PRACTICAL OBSTETRICS is under the supervision of the Professor of Obstetrics and the Demonstrators.

The course includes operations on the cadaver and practice with the manikin, while lying-in cases are given to advanced students. (See also under MATERNITY PAVILIONS.)

The WISTAR AND HORNER MUSEUM, founded nearly one hundred years ago, has been annually augmented, and is unsurpassed in the United States for the number and variety of its specimens illustrating the normal and morbid anatomy of every part of the human body. It also contains a large number of preparations in comparative anatomy, used in illustrating the lectures. Through the munificence of General Isaac J. Wistar, The WISTAR INSTITUTE OF ANATOMY AND BIOLOGY has been erected opposite the Medical Hall, and therein the collections of the Museums are contained. The Museum is open daily, except Sunday, from 1 P. M. to 3.30 P. M. throughout the season, to matriculated students.

The CABINET OF MORBID ANATOMY, collected by Dr. George B. Wood, and given by him to the University, contains an extensive series of wet preparations, drawings and models in wax and other materials: a collection unrivaled in extent and value for illustrating diseases of the internal organs and of the skin.

The late distinguished Professor of Obstetrics, Dr. Hugh L. Hodge, enriched the facilities of instruction in that special branch by the gift of his valuable Cabinet.

Through the liberality of the late Dr. Henry H. Smith, Professor of Surgery, and of the late Dr. John Neill, Professor of Clinical Surgery, the University received further extensive and valuable gifts of morbid specimens, models and drawings; and the late eminent Professor of Surgery and Honorary Professor of Clinical Surgery, Dr. D. Hayes Agnew, generously presented his entire collection for the use of the Chair of Surgery.

THE LABORATORY BUILDING.

The first floor is arranged in rooms for the accommodation of the Laboratory for Practical Physiology and for the Classes in Operative Surgery and in Bandaging.

The second and third floors are fitted up as chemical laboratories; on the second floor is the Laboratory of General Chemistry, and on the third floor that of Medical Chemistry. In addition to the main rooms, there are two smaller rooms, provided with an adequate number of balances for quantitative work.

The fourth floor is occupied by the Dissecting-room.

The PHYSIOLOGICAL LABORATORY is under the personal direction of the Professor of Physiology, who devotes his entire time to the

subject, aided by the Demonstrator. It is furnished with every form of apparatus likely to be used by the practical physiologist. Every facility is afforded advanced students and graduates pursuing special studies in Physiology. The Laboratory is open throughout the year, except during July and August.

CHEMICAL LABORATORIES.—The Laboratories for Practical Chemistry are under the supervision of the Professor of Chemistry and the Demonstrator. Students of the first year devote three hours each week in the Laboratory to the study of Qualitative Analysis. The course includes chemical manipulations, and the detailed study of the chemical reactions of the principal metals, acids and their combinations; with the general principles of Qualitative Analysis, especially as they relate to the detection and separation of metals and compounds of importance to the physician. Each student is provided with a separate table and apparatus, and is required to exhibit by written formulæ all reactions involved in his tests.

Students of the second year devote three hours per week to practical work in the Laboratory. The course embraces an introduction to the general principles of Quantitative analysis; the principles of Volumetric Analysis; and Water Analysis; with the practical examination of urine and animal fluids, and the recognition and recovery of poisons from the animal body and complex mixtures.

DISSECTING-ROOM.—In constructing the new Dissecting-room of the University, care was taken to provide everything that experience suggested as being necessary or desirable. The room is at the top of the Laboratory Building, and is one hundred and forty feet in length by forty feet in width. It is lighted by windows on all sides, and by skylights. The most perfect ventilation is thus secured. The tables have stone tops, which cannot absorb moisture, and are kept perfectly clean. There are numerous washstands with hot and cold water, and private closets for the use of each student. Cleanliness is rigidly enforced. The cadavers furnished the dissecting-room are preserved by refrigeration in a room provided for the purpose, which is kept at a temperature below the freezing point by an ice-making machine. Dissection is legalized in Pennsylvania.

PRACTICAL SURGERY.—The applying of bandages is taught to students in their first year, while the use of fracture dressings is taught in the third year, and surgical operations on the cadaver are a part of the practical instruction to students of the fourth year, under the supervision of the Professor and Demonstrators of Surgery. Instruments and splints are supplied without expense to the student.

THE STILLÉ MEDICAL LIBRARY.

The STILLÉ MEDICAL LIBRARY, the judicious selection and generous gift of Professor ALFRED STILLÉ, presented to the University in 1879, has received numerous additions, and now contains over six thousand volumes and five thousand pamphlets. It is deposited in the University Library.

THE UNIVERSITY HOSPITAL.

The University Hospital, constructed according to established principles of hospital architecture, is provided with all the appliances pertaining to such institutions of the best class. It is situated near the Medical Hall, and forms an integral portion of the Department of Medicine. In its various departments during 1896, there were treated 11,639 individual cases, representing almost all of the known medical, surgical and gynæcological affections.

Attendance on the Clinical Instruction given in its amphitheatres and wards is a part of the daily duty of the students, and ample opportunities are afforded the students to gain a personal and practical acquaintance with Clinical Medicine, Clinical Surgery, Gynæcology and the specialties. These subjects are taught by the several Clinical Professors.

The GIBSON Wing for Chronic Diseases, especially of the heart and lungs, was erected through the liberality of the late Henry C. Gibson. Here unusual opportunities are afforded for the study of these important affections.

The D. HAYES AGNEW Memorial Pavilion, comprising four large wards, and one large and two small clinic amphitheatres, is also used for clinical instruction.

The WILLIAM PEPPER Laboratory of Clinical Medicine, erected through the generosity of Dr. William Pepper as a memorial to his father, adjoins the University Hospital. The purposes of the Laboratory are: to promote the interests of the patients by providing facilities for the prosecution of minute clinical studies and original researches; and to advance the interests of Science by the publication of the results of such work. No instruction in the Laboratory is given to undergraduates.

Four positions as resident physicians in the University Hospital are awarded annually in June to the four members of the graduating class who have attained the highest general average in examinations. Only those members of the graduating class who have taken the last three years of the course in Medicine at this University are eligible for the positions.

MATERNITY HOSPITAL.

The first pavilion of the Maternity department of the University Hospital was opened in the autumn of 1889. The second pavilion was opened in 1891, and the main building was completed in 1894. The Hospital has a present capacity of fifty beds and as many confinement cases a month. Two students of the graduating class are assigned to each case four weeks before the expected delivery. Under the supervision of a demonstrator, a thorough examination is made of the patient's history and present condition, with special reference to the urine, pelvis and abdomen. The labor is conducted by the students in charge of the case, under the instruction of a resident physician, and daily visits are made, during the puerperium, to the mother and child. The patient's safety is guarded by a strict system of antisepsis, and unnecessary exposure is avoided by giving to each woman a separate room during her confinement. The students fill out an elaborate record of the case, which is handed to the Professor of Obstetrics.

OTHER HOSPITALS AND HOSPITAL CLINICS.

In addition to the official clinical lectures and bedside instruction delivered at the University Hospital, medical students have the opportunity of attending clinical lectures in other hospitals, and in private classes formed for the special study of disease.

Close to the grounds of the University is the Philadelphia Hospital, with its thousand beds. Here are delivered twice a week Clinical Lectures on Medicine, Surgery and the Diseases of Women and Children. Lectures on Clinical Medicine and Surgery are also delivered twice a week during the greater part of the year by the Medical Staff of the Pennsylvania Hospital. Instruction in Clinical Surgery and Children's Diseases is also given at the Children's Hospital. There are also weekly Clinics in Medicine and Surgery at the German Hospital. In the Southeastern Hospital and Dispensary, students of the graduating class are lodged, in rotation, to attend confinement cases in the patients' homes. To these institutions students are admitted without charge.

During the summer private classes are formed for Clinical Instruction, for which a moderate fee is charged.

Appointments of Resident Physicians, amounting to thirty-five or more, are made annually in the different hospitals of the city and in the Philadelphia Dispensary. Except in one or two hospitals, these positions are now filled by competitive examination of candidates.

From the preceding summary it is evident that a prolonged residence in Philadelphia must be of the utmost value to the student, by enabling him to pursue a systematic course of study, and to become practically familiar with the scientific methods of investigating disease, and with the principles and results of its treatment.

PRIZES TO BE AWARDED, JUNE, 1898.

NOTE.—Theses and Reports in competition for Prizes must be presented to the Dean on or before April 1. Prizes will not be awarded unless the work submitted reaches a high standard of excellence.

THE ALUMNI MEDAL is offered by the Society of the Alumni of the Department of Medicine of the University, to the member of the Graduating Class who attains the highest general average in examinations.

A Prize of One Hundred dollars is offered by a friend of the University, to the member of the Graduating Class who passes the best examination in Obstetrics.

The Professor of Obstetrics offers a Prize of an Obstetrical Forceps to the member of the Graduating Class who furnishes the best report of a case of Obstetrics occurring in the University Maternity Hospital.

The Professor of Clinical Surgery offers a prize of a Surgical Pocket-case for the best report of his clinics during the session; also a Prize of a copy of White & Martin's Genito-Urinary Surgery to a member of the Surgical Ward Class for the best report of that service.

The Clinical Professor of Orthopædic Surgery offers a Prize of an Antiseptic Minor Operating Case for the best practical work in Orthopædic Surgery, or for the best report of his clinic, or for an acceptable original design in Apparatus.

The Clinical Professor of Genito-Urinary Diseases offers a Prize of a copy of Treves' Operative Surgery for the best thesis on a clinical study of cases.

A Prize of a Surgical Pocket-case is offered by the Demonstrator of Anatomy, to the member of the Graduating Class who presents the best record of anomalies found in the anatomical rooms.

Two Prizes are offered by the Demonstrator of Surgery: a Pocket-case of instruments to the member of the Graduating Class for proficiency in Fracture Dressings and in Operative Surgery; a Pocket-case of instruments to the member of the First-year Class for proficiency in Bandaging.

A Prize of a Gower's Hæmometer is offered by the Lecturer on Physical Diagnosis, to the member of the First-year Class who presents the best report of his lectures on Physical Diagnosis.

A Prize of an Axis-traction Obstetrical Forceps is offered by the Barton Cooke Hirst Obstetrical Society to the member of the Graduating Class who passes the best examination in Operative Obstetrics.

The JOSEPH ZENTMAYER Prize of a Histological Microscope, with two object glasses and two eye-pieces, is offered by the successors of Joseph Zentmayer to the student passing the best examinations in Histology and Embryology, the average to be made from the combined marks of the separate examinations on these branches.

A Prize of Twenty-five dollars is offered by a friend of the University to the student who passes the best special examination in Therapeutics.

SOCIETY OF THE ALUMNI OF THE DEPARTMENT OF MEDICINE.

OFFICERS.

President.—Meredith Clymer, M. D.

Vice-Presidents.—James Tyson, M. D.; Claudius H. Mastin, M. D.; John H. Packard, M. D.; Samuel D. Risley, M. D.

Secretary and Treasurer.—Joseph P. Tunis, M. D., 129 S. 18th St., Philadelphia.

Any graduate of the Department of Medicine, in good standing, may become a member of this Society after his eligibility has been acted upon by the Executive Committee. The annual dues are two dollars, which include the *University Medical Magazine*. There is no initiation fee.

The Society has already prepared a complete printed list of the graduates of the Medical Department from the opening of the School up to 1877, with an appendix from 1877 to 1887, inclusive. An appendix covering the last ten years (1887-1897), and bringing the catalogue up to date, is in course of preparation. When published, about the first of the coming year, a complete catalogue may be secured for one dollar and a half, or either appendix for twenty-five cents, upon application to the Secretary.

Alumni are particularly requested to notify the Secretary AT ONCE of any change in address.

DEGREES AND PRIZES—1897.

At a public Commencement, held on WEDNESDAY, JUNE 9, 1897, the degree of Doctor of Medicine was conferred upon the following named persons:

Jesse Hall Allen,
Brooke Melancthon Anspach,
Charles Scheirer Apgar,
Henry Artelt,
Joseph Caleb Atkins,
George Ashton Bardsley,
Simon Baum,
Horace Porter Beck,
Harry Albert Bell,
William Hemphill Bell,
Charles Christian Biedert,
Montgomery Herman Biggs,
Elbert Wellington Blakeslee,
Edmund Charles Boddy,
William Thomas Boon,
John Langford Bostwick,
Hiester Bucher,
Joseph Thomas Buxton,
Wm. Gooderham Cameron,
George Campbell,
Clarence M. Casselberry,
Edward Beardsley Castle,
Jerome Stuart Chaffee,
John Franklin Chattin,
James Christian Chestnut,
George Morrison Coates, Jr.,
J. Lynn Crawford,
William Frederick Dager,
Walter Davis,
John Colton Deal,
Halsey DeWolf,
John William Dixon
Benjamin Jones Edger, Jr.,
John Wesley Edwards,
George Macey Eckwurzle,
Elmer Rockwood Edson,
Walter Gray Elmer,
Charles Andrew Fife,
Bryce Washington Fontaine,
Frank Albert Ford,
Geo. Walter Kitchen Forrest,
Hugh Milton Foster,

Carroll Fox,
John Edgar Fretz,
Ben Clark Gile,
Benjamin Franklin Gillmor,
Ellis Edgar Willits Given,
Clark Hutchinson Gordon,
John Charles Granger,
Frederic Griffith,
James Edward Greene,
Elliott Moriarty Hague,
Arthur Stephen Hamilton,
Frank Bacon Hancock,
Charles Delucena Hart,
Ledra Heazlit,
Joseph Hemphill, Jr.,
William Hubley Herr,
John Cooke Hirst,
Cortlandt Van R. Hodge,
Olye Spencer Hodges,
Thomas Beaver Holloway,
Lawrence Edward Holmes,
Willet Patterson Hughes,
Harry Herbert Hurst,
Albert George Jenner,
Francis Julius LeM. Johnson,
Charles Hollister Judd,
Ira A. Keiter,
Frederick Sherlock Kellogg,
Walter Norwood Keylor,
Hugo Albert Kiefer,
George Sawers Klink,
George Berry Klump,
Harry Haynes Koons,
Felix John Langenhorst,
Walter Clark Lauderdale,
John Prothero Laughlin,
Ward Holmes Leonard,
John Joseph Light,
Samuel Wesley Lippincott,
Acestes Grant Loder,
Edward Lodholz,
John D. Long,

Paul Hagans Ludington,	Charles Harry Schlesman,
Waldemar T. Lungershausen,	Theodore Senseman,
Edward Lyon, Jr.,	Christopher H. Shearer,
Charles Wheeler McConnell,	Elbert Stetson Sherman,
John Irvin McKelway,	Ira Augustus Shimer,
Robert Shuter Macrum,	Lawrence Simcox,
James Vance May,	John Falconer Sinclair,
Harry Garret Miller,	Elijah Hollingsworth Siter,
William George Miller,	Ross Hall Skillern,
George Rescarick Moore, Jr.,	Mahlon Cross Smalley,
James Ross Mossgrove, Jr.,	George Lewis Smith,
Andrew John Müller,	Harvey Fetterhoff Smith,
John Patrick Mulrenan,	William Clarkson Smith,
Elmer Ellsworth Neff,	Henry Field Smyth,
Oscar Augustus Newman,	Samuel Patterson Stafford,
Thomas Aloysius O'Hara,	Walter Storm,
Harry Edward Oesterling,	Ralph Preston Stubbs,
Albert Edgar Osborne,	David Torrens Taylor,
Maurice Ostheimer,	Albert Ernest Truby,
Jabez Sparks Parker,	Willard Frederick Truby,
William Pepper, Jr.,	Thomas Poage Hunt Twaddell,
Alfred C. N. Peterson,	William Scott Wadsworth,
Samuel O. Prall,	George Silas West,
Wallace Bernard Pyle,	Clarence Woldemar Wille,
George Perry Rains,	Carl Sheldon Williams,
Charles Edward Remaly,	Henry Francis Willard,
Walter John Robbins,	Robert Newton Willson, Jr.,
Isaac Burton Roberts,	James Wilson Wister,
Norman Roberts,	Wylie Glidden Woodruff,
Frederick Magee Rossiter,	William Thomas Worth,
John Reuben Harvey Schleicher,	Charles Robert Wylie,
Jacinto Zaratt.	

PRIZES AWARDED AT COMMENCEMENT, JUNE 9, 1897.

IN THE DEPARTMENT OF MEDICINE.

The ALUMNI MEDAL, with an accompanying Purse of Fifty Dollars, to the member of the Graduating Class who attains the highest general average in examination. To LAWRENCE EDWARD HOLMES.

The Prize of One Hundred Dollars, offered by a friend of the Department to the member of the Graduating Class who passes the best examination in Obstetrics. To LAWRENCE EDWARD HOLMES.

The Prize of an Obstetrical Forceps offered by the Professor of Obstetrics to the member of the Graduating Class who furnishes the best report of a case of Obstetrics occurring in the University Maternity Hospital. To IRA AUGUSTUS SHIMER.

The Prize of Twenty-five Dollars, offered by a friend of the Department to the student who passes the best special examination in Therapeutics. To JAMES AVERY DRAPER, JR.

The Prize of a copy of Treves' Operative Surgery, offered by the Professor of Clinical Surgery to one member of each of the four Surgical Ward Class sections for reports of that service. To LAWRENCE EDWARD HOLMES and CLARENCE WOLDEMAR WILLE.

The Prize of a Surgical Pocket-Case, offered by the Professor of Clinical Surgery for the best report of his clinics during the session. To ELMER ROCKWOOD EDSON.

The two Prizes offered by the Demonstrator of Surgery, were awarded as follows: A Surgical Pocket-Case for proficiency in Fracture Dressings and in Operative Surgery. To RAYMOND RODGERS FARQUHAR; with Honorable Mention of DAVID W. VAN CAMP. A Surgical Pocket-Case to WILLIAM BIDDLE CADWALADER, of the First-year Class, for proficiency in Bandaging; with Honorable Mention of LEVI LORE RIGGIN.

The ZENTMAYER PRIZE of a microscope for the best examination in Histology and Embryology. To BERNARD KOHN; with Honorable Mention of VICTOR ALEXANDER LOEB.

The Prize of a case of Autopsy Instruments, offered by the Demonstrator of Morbid Anatomy, for the best report of the autopsies. To CHARLES HODGE LYON.

The Prize of a copy of Ashhurst's Surgery offered by the Demonstrator of Osteology, to the member of the First-year Class who passes the best examination in Osteology. To GEORGE THOMAS LUKENS; with Honorable Mention of THOMAS B. L. JORDAN.

The Prize of a Hæmocytometer, offered by the Lecturer on Physical Diagnosis, to the member of the First-year Class who presents the best report of his lectures on Physical Diagnosis. To JOHN HAMILTON KEMP; with Honorable Mention of the report of ASTLEY PASTON COOPER ASHHURST.

The Prize of an Antiseptic Minor Operating Case, offered by the Clinical Professor of Orthopædic Surgery for the best practical work in Orthopædic Surgery, or for the best report of his clinic, or for an acceptable original design in apparatus. To CHARLES WHEELER McCONNELL.

The Prize of an Axis-traction Obstetrical Forceps, offered by the Barton Cooke Hirst Obstetrical Society to the member of the Graduating Class who passes the best examination in Operative Obstetrics. To JOHN IRVIN MCKELWAY.

APPOINTMENTS TO HOSPITALS.

The following graduates of the Department of Medicine, Class of 1897, arranged in alphabetical order, were appointed to Hospitals on competitive examination:

University Hospital—

Biggs, H. M.,
Crist, Louis R.,
Edson, Elmer R.,
Huston, David T.,
Norris, Henry,
Truby, Albert E.,
Wood, Horatio C., Jr.,
Williams, Carl S.

Episcopal Hospital—

Holmes, Lawrence E.

Philadelphia Hospital—

Anspach, Brooke M.,
Buxton, Joseph T.,
Bardsley, George A.,
Edson, Elmer R.,
Edger, Benjamin J., Jr.,
Hurst, Harry H.,
Holloway, Thomas B.,
May, James V.,
Pepper, William, Jr.,
Truby, Willard F.,
Truby, Albert E.,
Willson, Robert N., Jr.

German Hospital—

Allen, Jesse H.,
Sinclair, John F.,
Wille, Clarence W.

St. Agnes' Hospital—

Long, John D.,
Loder, A. Grant,
O'Hara, Thomas A.

St. Joseph's Hospital—

Mossgrove, James R.,
Stubbs, Ralph F.,
Smith, Harvey F.,
Wille, Clarence W.

Methodist Episcopal Hospital—

Apgar, Charles S.,
Fife, Charles A.,
Herr, William H.,
May, James V.

St. Mary's Hospital—

Baum, Simon,
Mulrenan, John P.

Presbyterian Hospital—

Apgar, Charles S.,
Buxton, Joseph T.,
Elmer, Walter G.,
Hodge, Cortland V.,
Ludington, Paul H.,
Stubbs, Ralph P.

Methodist Episcopal Hospital, Brooklyn,
N. Y.—

Edson, Elmer R.

Kings County Hospital, Brooklyn, N. Y.—

Holloway, Thomas B.,
Kellogg, Fred S.

Rochester City Hospital, Rochester,
N. Y.—

Boddy, Edward C.

Erie County Hospital, Buffalo, N. Y.—

Truby, Willard F.

Manhattan State Hospital, New York,
N. Y.—

Truby, Willard F.,
Truby, Albert E.

Newark City Hospital, Newark, N. J.—

Sherman, Elbert S.

Memorial Hospital, Orange, N. J.—

Anspach, Brooke M.

Elizabeth General Hospital, Elizabeth,
N. J.—

Bardsley, George A.,
Roberts, Norman.

Christ Hospital, Jersey City, N. J.—

Pyle, Wallace B.

Rhode Island General Hospital, Providence, R. I.—

De Wolf, Halsey.

- St. Joseph's Hospital, Providence, R.I.— Williamsport (Pa.) City Hospital—
 Casselberry, Clarence M., Lyon, Edward, Jr.
 Parker, Jabez Sparks.
- Cooper Hospital, Camden, N. J.
 Biedert, Charles C.,
 Senseman, Theodore.
- St. Francis Hospital, Trenton, N. J.—
 Gordon, Clark H.
- Mercer Hospital, Trenton, N. J.—
 Chattin, J. Franklin.
- Freedmen's Hospital, Washington, D.C.—
 Johnson, Francis J. L.,
 Stafford, Samuel P.
- New Haven Hospital, New Haven,
 Conn.—
 McKelway, John I.
- Polyclinic Hospital, Philadelphia—
 Hamilton, Arthur S.
- St. Christopher's, Philadelphia—
 Ford, Frank A.
- Howard Hospital, Philadelphia—
 Given, Ellis E. W.,
 Lodholz, Edward.
- Chester Hospital, Chester, Pa.—
 Apgar, Charles S.,
 Cameron, William G.,
 Foster, Hugh M.
- St. Luke's Hospital, Bethlehem, Pa.—
 Remaly, Charles E.,
 Shimer, Ira A.
- Charity Hospital, Norristown, Pa.—
 Miller, William G.
- Wilkesbarre (Pa.) Hospital—
 Foster, Hugh M.
- Reading Hospital—
 Heazlit, Ledra.
- Mercy Hospital, Pittsburg, Pa.—
 Anspach, Brooke M.,
 Apgar, Charles S.,
 Atkins, Joseph C.,
 Buxton, Joseph T.,
 Bardsley, George A.,
 Castle, Edward B.,
 Dickson, John W.,
 Hurst, Harry H.,
 Hughes, Willet P.,
 Mossgrove, James R.,
 Oesterling, Harry E.
- Bryn Mawr Hospital—
 Hancock, Frank B.
- Carbondale (Pa.) Hospital.
 Gile, Ben C.
- St. Mary's Hospital, Rochester, N. Y.
 Hague, Elliott M.

HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA.

BOARD OF MANAGERS.

WILLIAM F. NORRIS, M. D., PRESIDENT.

JOHN SAILER, VICE-PRESIDENT.

BARTON COOKE HIRST, M. D., SECRETARY.

THOMAS ROBINS, TREASURER.

CHARLES C. HARRISON, LL. D., PROVOST.

ON THE PART OF THE CONTRIBUTORS TO ENDOWMENT FUND.

FRANK P. SIBLEY, ROBERT E. HASTINGS,
THOMAS DOLAN, WM. BARTON HOPKINS, M.D.,
WILLIAM F. NORRIS, M. D., JOHN SAILER,
GEO. FALES BAKER, M. D., DE FOREST WILLARD, M. D.,
GEO. H. McFADDEN.

ON THE PART OF THE BOARD OF TRUSTEES.

RICHARD WOOD, WALTER GEORGE SMITH,
JOHN C. SIMS, HORACE HOWARD FURNESS, PH.D., LL.D.

ON THE PART OF THE FACULTY.

BARTON COOKE HIRST, M. D., J. WILLIAM WHITE, M. D.,
JAMES TYSON, M. D.

ON THE PART OF THE ALUMNI.

HORACE Y. EVANS, M.D., RICHARD A. CLEEMANN, M.D.,
SAMUEL D. RISLEY, M. D.

ON THE PART OF THE BOARD OF WOMEN VISITORS.

MRS. CHAS. C. HARRISON, MRS. WM. A. LAMBERTON,
MRS. EDWARD M. PAXSON.

CHAIRMEN OF STANDING COMMITTEES.

ON FINANCE: GEORGE H. McFADDEN.

ON PROPERTY AND REPAIRS: JAMES TYSON, M. D.

ON SUPPLIES: HORACE Y. EVANS, M. D.

ON LIBRARY AND MUSEUM: JOHN SAILER.

OF EXECUTIVE COMMITTEE: ROBERT E. HASTINGS.

The names of the medical staff and officers of the Hospital are printed in the preceding pages, under Department of Medicine.

The UNIVERSITY HOSPITAL is under the immediate direction of a Board of Managers, constituted as above. It is situated on a lot of ground between Thirty-fourth and Thirty-sixth streets, and Spruce and Pine streets, given by the City of Philadelphia to the University. The main building and one wing were opened for the reception of patients and for purposes of clinical instruction in 1874. In 1882 a new wing was added, through the liberality of Mr. Henry C. Gibson, for patients suffering from Chronic Diseases. In 1897, the D. Hayes Agnew Memorial Pavilion, comprising four large wards, and three clinic amphitheatres, was dedicated.

The main building, besides the offices and the rooms of the officers, has a large clinical Amphitheatre, which will seat six hundred students, and a smaller one seating one hundred and fifty. It also has twelve rooms for private patients. The wing adjoining has four wards, with a capacity of one hundred and ten patients, and sixteen private rooms. The wing for Chronic Diseases has room for sixty-two patients in its four wards. There is, therefore, full accommodation for one hundred and eighty-six patients. In the basement are surgical and medical dispensaries, also special dispensaries for diseases of the throat and nose, diseases of children, diseases of the skin, the eye and the ear, nervous diseases, diseases of women, for orthopædics and for venereal diseases, and for outdoor patients. In connection with the Orthopædic Dispensary is a workshop, in which braces and other appliances are made.

The Hospital is also well adapted to purposes of teaching. A large part of the instruction given to the students in the Medical School is given here, as will be seen by reference to the rosters.

All cases of accident occurring in the State of Pennsylvania, which are brought to the Hospital within twenty-four hours after their occurrence, are admitted at any hour of the day or night.

Charity patients are admitted by the members of the Medical Staff on a written order to the Superintendent; provided that a bed be vacant in the department to which the member of the Medical Staff is attached.

Paying patients are received at the Hospital on application to the Superintendent, subject to the approval of the proper attending medical officer. The charge in the wards is \$7.00 per week; in the private rooms, of which there are twenty-eight, the prices range from \$17.50 to \$35.00 per week. The friends of the patients can be accommodated in the Hospital under certain circumstances, but it

is better for them to board in the neighborhood, where rates range from \$5.00 per week upwards.

No patient with acute venereal disease, or mania-à-potu, is admitted as a free patient, but is charged such rates for board as may be agreed upon. There are special apartments for mania-à-potu patients.

Visitors are admitted to see patients in the private rooms at convenient hours.

Visitors are admitted to the wards on week-days between 3 and 4 P. M., and on Sundays from 2 to 3 P. M.

Four positions as resident physicians in the University Hospital are awarded annually in June to the four members of the graduating class of the Department of Medicine who have attained the highest general average in examinations. Only those members of the graduating class who have taken the last three years of the course in Medicine at this University are eligible for the position. The resident physicians go on duty at intervals of three months and serve during a term of two years.

An Annual Report of the Hospital is published, giving detailed statistics of the year. Copies may be had on application to the Superintendent.

Communications concerning the business of the Hospital and the admission of patients should be addressed to the Superintendent, MARY E. P. DAVIS, and not to the Dean of the Faculty of Medicine.

TRAINING SCHOOL FOR NURSES.

The Training School for Nurses, attached to the Hospital of the University, was organized in 1886. In that year a HOME FOR NURSES was erected in memory of Mrs. Richard D. Wood by her children, and has since then been considerably enlarged by the same generous donors. The building was completely furnished by the women members of the Training School Committee, and every provision is made for the healthful and comfortable home life of the pupil nurses. The course of instruction covers a period of three years. Besides the regular ward and class instruction, courses of lectures are given in Hygiene, Anatomy, Physiology, Medical and Surgical Nursing, Materia Medica, Toxicology, Urinalysis, use of Splints, Bandaging, Gynæcology, Obstetrics, Diseases of Chil-



dren, Diseases of Eye, Ear and Nervous System, Rest Cure, Electro-therapeutics, Massage, care of the Insane, Contagion, Nutrition and Cookery for the sick.

GRADUATES IN 1897.

MARY E. CARY,
MARGARET M. BENSON,
ADELAIDE M. LEWIS,
EDYTHE LINTON,
MARY C. ROURKE,
MARY E. SPRY,
MARIE HORN,
MALITTA K. PELL,

MARY A. RYAN,
CLARA V. HARRING,
FLOY W. TOBIAS,
IDA ZIMMERMAN,
CARRIE HUNTZINGER,
ANNA WACKSMUTH,
LAURA E. BEITEL.

All communications relating to the School for Nurses should be addressed to
has
for

MARY E. P. DAVIS, Superintendent,
University Hospital, Philadelphia, Pa.